



	Chongo
29 Mar	Roost watch ranbuch set at 85 hole (low, nice). Nothing.
Dec 87	Acorn Count: 2000
	Roost watch: birds dead quiet, dropped from hi in the gran
(at 1853. May have gone to the back hole, maybe lift tree
4 April	at 1853. May have gone to the back hole, maybe lift tree. 1630 Peeped 85 hole-nothing. The new hole on the back
	side is a dead end.
20 Ap-	0640 Hello'd holes - nothing.
(30 Apr	Walt reports / egg in Chgo/Buck kok notch 15 may
6 May	5 eggs in "
15 May	0700 Tried to Find the bloody nest and condut. Atterwards
&Bart	checked 86 hole - nothing.
	1530 Finally found the nest (green) RL = 5.1, LL = 6.65,
(RW = 4.2 (new), LW = 6.3 + 1 unhatched fert egg
19 May	Rw = 4.2 (new), Lw = 6.3 + 1 unhatched fert egg 1830 LW = 16 = R, LL = 23.1 = K Not Chongo Banx
/	
21 May	1530 Well, I suppose someone should have done this @ 1
	month ago. We missed the nest. Watching from the Banx
	side of Madrone Canon / quickly see 5 birds !
and have not make a compart of the contract of	only have binocs, but they (1-2) are acting like babies.
	1 wotched @ 20 min, but saw no flights to holes. 1400 1617 62.8 39 17.5 13
26 Jnn	1617 62.8 39 17.5 13
	1618 61.2 29 16.4 -
1 Oct	Roost watch at granary hole - nothing.
1 Nov	Roos t natch at granary hole - nothing. 1300 Saw MLB-LP (1618) at pantrap - KNOL Set ambush at 86 hole - bird didn't like it
	Setambush at 86 hole - bird didn't like it
12 Dec	Acorn Count: main tree + lean = 2100 /2250
	saw (110) downed logs = 150 over->
1	

14 Dec Ambush at high hole in dead limb of sycamore.

Caught 1110. Boo!

	Buckeye Annex HNH	R
	- 1 egg in hole (old Buckeye hole)	
6 May	5 eggs "	
15 May	1530 RL = 5.1, LL = 6.65 RW = 4.2 (new) LW =	6.3
/	plus 1 unhatched Fert egg. Jane sees NOBA 9 & 8 1830 LW=16=R, LL= 23.1 = K. There was n	
19 May	1830 LW=16=R, LL = 23.1 = K. There was n	0
/	egg, so I think it did hatch, and died	
ZI May	1630 K = 34.2 (11.7), R = 26.2 (11.0)	?
	1000 Dead babies R was minus it's head, so I think	7
	we're looking at predation. K:6th 1's: 10.5 1'=12	The state of the s
	we're looking at predation. K:6th 1's: 10.5 1'=12 TS=9.5, T=14.5. There were (at least) Z birds he	re
	semi-scolding me.	· · · · · · · · · · · · · · · · · · ·
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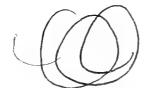
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	BUCK
28 Mar	1100 Bird in hole (87 nest hole)
Dec 87	
5 Apr	1330 Should've known! Babies! Hatch Z Apr(?)
/	LB=17.5 LL=14.3 RW=13.8 LW=11.0 runt=5.5
6 Ap	1245:20(8.9) 15.8 16.4 13.5 6.5
7 Ap	1300: 246(10) 195(11) 195(11) 182(84) 96
8 Ap	1315 27.4 (11) 23 (m) 23.7 (10.7) 20.5 (9.3) 11.7 broke
9 Ap	1400 34.9(11.8) 26.5() 28.8(11.45) 25.9(10.25) 15.5
24 Ap	1300 Wt Chor Bill 1's 10 TS T Hem
	01474 74.3 73 19.7 26.7 47.3 24.5 31.7 42,43.5
	K1475 74.9 64 19.5 4200 38.6 20 27.1 40,40
	B 1476 76.3 75 20.6 29.5 48.3 23 35.5 47,46
	Y 1477 66.6 60 18.7 21.4 35.1 21 25.7 44,42
	- 1478 59.7 42 18.75 17.7 19.7 9.4 16.4 36.36
	1474 = M ROK 1475 = W M 1476 = LB LB R
	1477 = Y RWN 1478 : LG MV - Y LG MV - Y RK-33 LG MV - Y
	KR RK-33
19 May	1745 Helle hole nothing [1845 2 juvs in nest hole]
21 May	1600 Juv in nest hole
/	1700 No one in nest hole or low hole up hill.
27 May	1630 5 Freshish eggs (couldn't reach) 1000 Still 5 eggs - opagne
3 Jun	1000 Still 5 eggs - opagne
0 6 Jun	1000 BL = 3.2 , RL = 3.85 A third baby wasnit
	reachable. + 2 eggs. 3rd? port hat?
2 8 Jun	1015 BL= 7.1, RL= 7.25, RW= 4.8, LW= 3.7, B= 2.9
4 10 Jun	1000 LL = 11.95 , RL = 12.55 , RW = 8.0
5 11 Jun	1106 LL=14.6, RL=16, RW=8.9

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	Buck	G	W		HNHR
12 Jun	1020 RL=	20 (9.35) + 09	LL=18.2/	(W) -=	9.4
13 Jun	1100 25.9	(10.15) 23.	8(9.9)	14	
14 Jun	1040 32.3/11.	4) 28.45/1	105 17.	3 (9.4)	
15 Jun	1045 36.5/1	2.45), 33.7	(12.35)	7.6 (9)	10.1
17 Jun	1055 43.4 1	4.2), 43.3	(13.95)	25 (1).7	
19 Jan	1055 951.5 (1:	5.1) 3.6		.5	3, 3
	l .	15.1 3			.]
					,
21 Jun	- 33.4 1125 G 57	inj 9.	9 4	1.7 7	2.6
	W 60.5		9	6 8	
23 Jnn	- 47 - 47	16 4	1.9	3.1	4
	PG 64.2 44	15 HES 1	6.5 8-5 18.5	8.2	15
	A./	5.5 17.55 1		10	15.5
25 Jun	- 53.5		0.4		7.9
		5 18.15 2			23
		6 18.3 2			22.7
28 Jun	1115	7.5 18.4			17.5
		3 19.65			33
		1 19.31			32.5
30 Jun	- 66.6 5	9 19.2 2.	25 34	12	24 Time?
		.5 20.6 29			39.4 1200
	KW 819 83.	5 20.3 2	3.5 54.9	24	39.5
2 July	1125 KW 82 93	21.05 2:	3.5 66	71.5	16 13
		21.1 25		16.5	16 G
		1906	.5 45.6	16.3	30.6 P

	761 MICIVEDIOS
	BUCK
15 July	0645-0945: Census + juv match: +10:665,987,
	1003, 1395, 1475, 1476, 1477, 1478, J NM = 1.75
	J M DB R 1 1026. N WO > 1478, KM > 5 WM
	Now juve still going to hole alot. Adults were
	not censused super thoroughly - I was concentrating
	ou juvs. On 13 July 1003 was down near Blm Fond.
21 July	0705-0900 Juv watch. Dead + dull. Saw only BY(N) M
11 Sept	1476 8 at Pump pan
	am. Silent chasing at Y, looks to be a comple intrud
	ers. One is 3 1476.
79 Oct	0945 39 1674 at Red House My M Also 9 1478
1 Nov	1300 Saw at KNOL: 1477, 1624 9, 1625 9, 1626 9, 1476, 987,
	Acorn Count: leaning logs 190
	downhill 3000 Total 6690
	uphill 3500



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	PLQE	HNHR
28 Mar	1130 Bird in 87 nest	
Dec 87		11016
	Acorn Count: 4201	
	1730 Checked hole-no egg.	
		#1 is first laid, #Z is Z".
4 Apr	1745 marked egg 3	
5 Apr		19.5 (3) 25.2 × 19.6 (4) 25.45 × 19.2
13 Ap	Walt reports 5 eggs) Experimental Group
17 Ap	1815 RL=655 5.85	LL = 4.5
18 Ap	1815 8.75	7.42 eheck the shells
19 Ap	1800 11.7	8.3
20 Apr	1825 14.9	10.75
21 Apr	1815 18.9 (9)	11.5
22 Apr	1815 21.9 (10)	13.8
25 Apr		19 (10.5) me repeatedly
26 Apr		20 (11.3?)?
28 Apr		29.3(12.2)
30 Apr		32 (13.3)
4 May	7	7) 17.8 44 (15.2)
	1850 90.5 66 19.4 22	
7.1019	52 16.7	4.5
9 May	935 71 19.75 26	
Triag		
1/1/	1845	
11 May		
	58.1 17 6	7.5 9.5
13 May	86.6 93.5 21.75 23.	
	65 34 17.55 10.3	10.8 11 15



M. Fermiciverus

	PLQE HNHR	
31 May	1000 5 opagne eggs (one dented + cracked - dead)	
2 Jun	0945 Not hatched yet.	_
4 Jun	1100 4 eggs (yep, onés gone, but) Judy reports wied belie	2V
6 Jun	0800 RL = 4.75 (hatched yesterday = skinny), LL= 3.7	
	The 2 other eggs died (were killed) while pipping. Wa	5
	it the wierd of or kumb jurs.	
7 Jun	0800 Failed due to the Annex movers yesterday. Indy	bw.
	0800 Failed due to the Annex movers yesterday. Judy. O Feedings in 3 hrs (3 non-entry visits)	
14 Jan	pm Saw both Plge babies.	
		-
27 Jun	0850 Bird to hole (88 nest)	Anadoromous phillip distribution account on the
	1640 Climb - peep 88 hole - nothing. 0715-0730 Watched For nestiness - nothing. Saw 1529 (M.	0)
29 Jun	0715-0730 Watched For nestiness - nothing . Jaw 1327 (1)	
July	0900 Saw bird make guick visit to hole. Climbed - empty,	
371	but seem to be a few tresh chips.	
5 July	1520 4 MO HOLE	
45	15.30 1 fresh egg (#1) 15.15 Marked 2 nd egg 7	
FIL	1900 3rd	
6 Jul.	1900 3.1 1430 4th > (E)	
11 July	1015 Peeped and saw 5 eggs.	
1754	1640 RL = 5.95, LL = 6.8 LW = 5.95. Egg # 4 pipper	1
/	and tinished his cut but was capped and died. I	
	removed. Egg # 5 fertile r unhatched dead = 4.18	8
18 July	1725 RL= 8.7, LL= 10.6, LW= 7.7 + unpip egg	
19 July	1725 12.4 13.3 10.9 4.0	
20 July	1715 15.5 17 (8.6) 15.0 — gone (murder?)	
/ t		****.

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	PLRE
21 July	RL = 19.95 (865) LL = 209 (985) , W = 195 (82)
22 July	1705 23.6 (9.8) 26.5 (10.95) 22.3 (9.85)
23 July	1715 26.2 (10.88), 28 (11.95), 25.3 (10.73)
34 July	$\frac{1745}{32.5(12.3)}$ $\frac{33}{34.5(12.9)}$ $32.0(11.35)$
	for further records see Jane's notes
7 Sept	
1	0700 8 1530 at Y
	0630-0645: 8 1529
	0830 - 1015 : Census: + 10:521,973, 1403, 1441, 1442, 1529,
	1530, 1665. I saw all birds repeatedly (1665 only twice) -
	never heard baby noises except the once with 1665)
16 Oct	
	acorn. T-pole roost holes are filled. Saw: 973,
	1441.1530 1665 1442
5 Dec	Acorn Count: Toole 120 + Tholes & 400
	2° gran 2/10/10 = 1250
	1 gran (2 way + all snags 2 3500
	2° gran 2/10/10 = 1250 1° gran (2 way + all snags a 3500 3° Northon Total [6000]

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	YHR
28 Mar	1030 Sav 7 675 (4W/M) at Barn, also 8 1150
	Acorn Count: 420
	0930 9 1350 (old Y H/B and present Knol PB) was
/	here getting chased around the barn by a Y bird.
7 Apr	here getting chased around the barn by a 1 bird. 1450 Eagle eye here spots bird in hole. Need a ladder.
10 Apr	0700 Bird at 87 kole (again 1110)
	1400 Check tole - empty but looks good.
11 Apr	1200 Fresh egg - can't reach it (neither can Jame -damn)
12 Apr	1800 Morgan can reach! She takes out the Zeggs and I put
	in wood chips to the desired level # 1 + 2. 23.3 x 19.55
13 Apr	
	1720 Labeled egg # 3 24.55 x 21.05 . (2) 24.05 x 20.65
15 Apr	1300 " 5 25.4 × 20.85
18 Apr	1800 6 eggs 24.85 × 20.35
26 Apr	1600 None hatched yet.
27 Apr	0550 RL = 4.2 LL = 4.15 RW = 4.5 Eggs # 1 + 5 pipping,
	egg # 6 not yet pipped. Because I weighed them before any
	teeding occurred, I think the size dits retlect egg size
	dits ie RW From biggest egg. 1210 RL=5.6, LL=5.22, RW=5.55, B= 3.7, LW=4.6
	As eggs 1 + 5 were at the same stage of pipping this am,
	I will assume that LW (bigger) came from egg 5 and that
	B came from egg 1. les, 1 dropped RL @ 8 inches
28 Apr	B came From egg 1. les 1 dropped RL @ 8 inches 1145 RL=8.8 LL=7.9 RW=8.45 LW=6.4 B=3.55 3.7 1215 13.1 9.5 10.8 8.27 - 3.25
29 Apr	1215 13.1 9.5 10.8 8.27 - 3.25
30 Apr	1200 14 12.5 13.8 8.97 1150 18 144 15.5 8.8 (red sale)
1 May	1150 18 144 15.5 8.8



	V							HN	HR
2 May	123	30 RI	=(G)=	22.3(10)	LL=Mu	17.2 (9.	2), RW(R:)	8.8(9.5)	9 9.2
3 May	115	5 25	5.2 (10.	8)	18,8 (9.8		21.7 (10.	3)	of Married South Service South and commenced special control of the service of th
4 May) 2	-		25 (10.9		man an akkir sa mashkur sa 18 da ka 1 dhinduy akkir akkir dhinduy akkir
/					_		31.3(12.		
	1						40.9 (13.		
10 May	,						50.9 (15	.)	tor, for the fillment of an authors, 1980 to the Annah Annah Mills and Annah A
/				\			6.4) 5.5 (5		
14 May	1145	59.8	33	16.			6	•	
/							10.8		
	G						12.8		
16 May	1100						9.6	13.5	(2)
/	46		5-4			26.7	12.6		}
	R					22.4	17.7	18.6	
18 May	1325 R	81	61	19.2	22.5	34,3	15.5	25.5	
	1			18.3	21.5	29.8	12	20.4	A Secretaria de la composição de la comp
Special data should be found that the second of the second	R	84.5	64.5	19.45	24	39.3	15	27.8	•
19 May	G	82	70	19.9	26	44.5	17	31	
see						35	15	23.3	
rec	1			195	23	39.5	17.5	29	
21 May				20.75	28	57	20	38	
/		87		20,3		52.3	21	36.5	
was My M	Y	80.8		19.4		48	20.5	30.5	
23 May			86	20,2	27	59.7	21.5	3>	G
	NG			71.55	27	67.5	23	44	P
	į.			20.9	26		23.5	43	,Y
7 Jun	Hell	lo hole	- bab	y inside	- wol	aldn't b	udge		
8 Jun	093	o Bin	d Flus	hed tro	n hole	- thin	twas /	Ad or	

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	Y HNHR
12 Jun	1540-1650 Juv watch. Saw adults, 1559 repeatedly.
	Saw 1560 once. Didn't see 1561.
16 Jun	1400-1500 Saw 1559, 1560, 1561 . 1561 >> 1560.
	MW, OKR, RO, OWOW, MKM
3 Jly	1615 PID: 1560, 1561
5 Jly	Saw 1559, 1561
11 July	0845-0920 FID: 675, 1559, 1560, 1561
20 July	0630-0715: +10:675, 1150, 1559, 1560, 1561
	0720-0745: 1150, 1561
10 Sept	0950-1020: 675 1150 9-1561 Lotsa new holes.
11 Sept	0650-0720: 675, 1150, 91560, 91561, 31530 P/g (9 1445 Kmlz)
2 oct	am, Lots of silent chasing here seem to be
	several intruders. Power struggle? I see B4, and
	later 1 think I see 88, also things got quiet
	pretty quick. Only intruder 10 d was 2 1476 trom
	Buck. Probably him & some brothers (just like lastyr)
29 Oct	0915 & 1560 was at Red House pan with KNOL
	birds o Z mystery birds.
16 Nov	A Filed the Feeder with acorns and hung it low on
	the granary tree.
20 Nov	About 1/3 of the acorns are gone.
6 Dec	Acorn Count: [1000] (Feeder still 3/3 full)
12 Dec	5an 1560, 1561, 1150 1015: Mol pan: 7 MRWN 9 KPPK = 1389 9 06 = 1374
	NOBA & NOBA & arrived after 1 left.

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	KNOL	HNHR
Dec. 87	Acorn Count: in Y-not gran: 800	reconstruction of the state of
3 Apr	0930 9 1350 was at barn getting chased by	n Y bird
18 Ass	1745 Hello'd hole walt found - nothing	
26 Az-	1730 Supportor upsts - nothing	
j	1730 Snoop for vests - nothing.	
	Walt reports of eggs in his new hole	-
11 M	Walt reports 5 of the eggs gone	BA
11 May	1800 Watched a while + tound nest - new hole in	
LIMay	1800 watched a while + lound nest - new hole in	. 71/6
22 May	0830 Cut open - 8 opaque eggs!	
25 / lay	1645 RL=4.2, LL=4.8, RW=6.2 + 5 eggs. Ve 0915 RL=5.1, LL=6.1, RW=7.5, LW=5.1 + 4 egg	ry windy
26 May	0915 RL=5.1, LL=6.1, RW=7.5, LW=5.1 + 4 egg	5
	0800 7.45 8.9 10.6 7.1 B = 3.3 BW = 3	_
	1425-1455 Nest watch 9 1350 + 9 1445 (1 think) seen -	teeding.
28 May	1425-1455 Nest watch 9 1350 + 9 1445 (1 think) seen - 0720 9.3 12.8 14.1 9.3 B=dead=2.55 BW=3.	65 'B'= 3.6°9
30 May	0735 RL=11, LL=B=2000 (9.75), RW=0=20 (in), L 0800 RL=14.9, (B=23.8(10.95), 0=22.5(in), (W)	w=12.1=
31 May	0800 RL=14.9, (B= 23.8(10.95), 0= 22.5(in) (W)	7.2 (8.9):4
/	last egg died while pipping (removed) 0745 20.5 (10.45), 31 (12.95), 31.4 (11.25), 21.	phot.
2 Jun	0745 20.5 (10.45), 31 (12.95), 31.4 (11.25), 21.	95 (10.2)
3 Jun	0845 25 (11.25) 38 (13.8) 36.9 (12.15) 27.4 ((10.7)
5 Jun	0845 $25(11.25)$ $38(13.8)$ $36.9(12.15)$ 27.4 (0800 $930.2(12.6)$ $95.9(15.1)$ $90.5(13.4)$ $31.7(13.4)$	2.1)
	0825 39.3 14.15	
	0 52.5 14.8 1.7 1.7	
	w 39.3 13,9	
	B 52.9 16.6 1.9 3	
9 Jun	0705 44.2 15.35	
	0 61 15.8 5.9 4.6	
	W 48.4 15.05	an Gi
	B 65.5 17.9 6 - 5	5.5 (3)

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	KNOL					HNI	4R
11 Jan	0705	16	5.9 2.	8	1.8		
	W 58.5	16	5.2 5.	2	3		
	0 66.3	37 16	12	6 -	6.5	11	
	DB 70.6	37 18	.87 12.	.2 -	7.2	12	(3)
13 Jun	0710 63.5	17.	55 8.	5	3.5	7	energia de la composició de la composici
	W 67	36 17	7 11	12	4	8.4	
	DB 79.9	48 19.8	5 17.8	22.2	11.3	19.5	(2)
		48 17.75					•
14 Jun	₩1650 - (71	o Watched	nest: n	16B = 13	350 Ru	4? 1N=144	5?
	Saw W.R	to = 1301			,		
	B 85.2	67.5 21.	2 27.5	40.5	22.2	30	
	- 72.5	49 19.	1 18.3	23.9	9.4	17.8	
	w 78.5	56 18.	3 21.5	29.7	10	19	
	0 80.2	67 18.9	15 25	40	15.5	19.2	
18 Jun	BWO 81	77.5 20	27.5	50.8	20.5	35.5	
	YEB 74	60.5 19.95	20.5	34.3	12.7	24	
(-)	MPK 84.5	79 22.2	25.5	51.4	26.3	36.6	
W		66.5 19.3	22.5	39.7	13.5	25.5	
20 Jun	1000 Bwo 79.8	88 20.6	22.5	62	23.5	42	
	MPK 78.9	88 22.95	24	62	28	43	a
	wm 85	88 22.95 77.5 24.3	500	9.95	18.5	32	B
	YAB 78.5	72 20.75	24	45.3	16	3)	Y
3 J/y	1630 MK	= 1605	sossible 160	3: 666			
11 July	1950 Knol	must have	a roost	hole in	the bio	sycamo	re
		e crossin				/	
20 July		Census	1				
24 July	0630 -0720	0. 1301	1350 144	5, 1604	•		
9 Aug	0645 + 1D :	1301, 1445	5	,			

	KNOL
11 Sept	
	0730-0900 Census, esp down near Pump, +10:1301, 1350 \$1604, YRWN 9 = 1445?? Also saw: 30 1 1398? GG = 1388 5HIL 3 bb = 1476 Buck & bBBb = 1426, 3 FX
	GG - 1388 SHIL T bb = 1476 Buck A bBBb . 47 SHILL DOWNY
- Commence of the control of the con	4 WR = 1605 ??
12 Sout	
Delst	0700-0800: 1301, 1605 mk 1 saw 1605 twice - at
	First I thought 8 but next looked to be very early
	stage 7. These birds are storing blue oak a corns
. 5 4	(From 200 ft uphill) in the Yout granary.
1 oct	1030 Stapped + 101 4 1604
20et	am census: 1301, 1445, \$ 1602 (MOK), \$ 1605 (MK)
	and 9 1604.
19 Oct	chasing going on. At least 1 NOBA & involved. (He
	chasing going on. At least I NOBA & involved. (He
	eventually ended up alone and finally left towards Place
	Birds were heard coming & going From 5416 (+ calling
	from that direction + the pines SHIL or KNOL binks
29 Oct	
	pan trap, and Red House 81301, 91604 (KNOL)
	7 1560 (Y), and Z mystery sirds: 9 Y/B-W(N)
	and 2 Mum I should check old KNOL lists.
	1 think it was Right Leg: 9 1624 (Buck)
	Also Kuol 1605.
1 Nov	1300-1400: Buck 1477, 1624, 1625, 1626, 1478, 1476, 987;
	CHGO 1618; SHIL 1385, 1426, NOBA & NOBA juv;
	CECN 1525; KNOL: 1445, 1301, 1605, NOBA 8
	8 LBMV new 9 MW DBM8? RMVBW
6 Dec	Acorn Count: [2200]
13 Dec	1145-1220: 1604, 1605

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	PUMP	HNHR
	0840 stores in the 3/m Poud free	
	Acorn Count:	
	1700 I snoop around for nestiness, but	Find nothing.
27 Apr	Reynolds says birds are hanging out in	Poul tree
	Reynolds says birds are hanging out in I've been checking but see nothing	
10 Jan	1530 Hear a bird in Blm Pond tree, but a	ant spot it. Who?
14 June	0645 Hear a bird in Pump thicket. 16	eds a watch.
13 July	1200 About 10 birds hanging arou	nd down here
	(1 think for the HD) Some we from pan traps. Saw 4 KW 3	ere drinking
androdori di mar anno andron in capita angali managan anno androdori dalah bida basin ka	From pan traps. Saw 4 KW 3	DE/YO
	and 8 LB.Y/LB-Y 9 is 260 (SHIL)	?
	C> Hey, this is BUCK & 100	
24 July	Knol birds, and a a NOBA jav seen	at pan trap
13 Ang	Knol birds, and a NOBA jav seen 0815-0845 Lots of Sirds here (getter From SHIL, 1800 9, and jav MAYY)	ing 420): 9260
J	From SHIL 1800 9 and jun MAYY	(who is it?) PLQ 1529
	Jane saw a Northern Shrike here	yesterday.
11 Sept	0800-0900 There are alot of birds l	here (including
	KNOL and as yet unid (but banded) biods	.) However around
	the Pump trees there are several.	NOBA birds.
	At least 19,28, and 1 just.	

bill which wing wing wind wind wind

sex ratio
varies w
what they
have at the moment?

187 297

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	1500	HNHR
Dec 87	Acorn Count: 4970	
	1000 Climb Empty, but good shape - looks likely	
13 Ap	1300 Bird in kole - climb but no eggs (Oh yes	s Walt
/	1300 Bird in kole - climb but no eggs (Oh yes cut open a hole on the lane that had a bird in i	+-no
	eggs - very rotten - I broke the limb that same day 1720 5 freshisheggs (not super tresh, and slitely 0915 Checked - 5 unhatched eggs till 1111	-cops.
18 Apr	1720 5 Freshisheggs (not super tresh, and slitely	Warm
24 Apr	10915 Checked - 5 unhatched eggs	
25 Apr	am - still not hatched	
27 Apr	1345 - still not butched daminit	
	· A	
29 Apr	1400 RL = 6.1, LL = 4.55, 1 pipping, 2 unhatched 1400 9.3 7.0 RW = 3.9, + 1 pipping egg -	50 where
	is the other baby (or egg)? 1415 13.1 95 3.5 3.) (lest 2 going to	1
30 Apr	1\$15 13.1 9.5 3.5 3.1 (lest 2 going la	ur)
1 May	1400 Arriving to find a low level power struggle - 8 kicked off. Babies ice cold (dead) have fly eggs all	must be
	kicked off. Babies ice cold and have fly eggs al	on
a sanggar samuna, ayaningkat yaning garan sakari ata a sakari karibusingan gapatan — yaninda a ka	them. Ite mustive digd out night and didn't sleep u	v the
	Kids. I brought the kids back to the lab tor pin	ekling
	and while washed the try eggs at they moved!	Alise,
7	but not too long - they both died later today	
17 May	and while I washed the Fly eggs of they moved! 1 but not Foo long - they both died later today 1700 4 Fresh eggs (#4 / laid today (?))	
20 May	pm Still 4 eggs 1000 RL=5.0, LL=4.9, 1 egg piping (#2), #4 not yet	
27 May	1000 RL = 5.0 , LL = 4.9 1 egg piping (#2), #4 not yet	pip
28 May	0800 7.5 7.4 RW = 5.25 # 4 pip	
30 May	0815 14.5 16 8.8 #4 hatched died, remo	oved by birds
31 May		
_	0850 23.6 (10.15) 23.7 (10.05) 15.9	U
2 Jun	0827 29 (11.05) 28.9 (11) 17.7 (9.3)	

render vous

	1500		HNHR						
3 Jun	0920 Y= 33.5 (12.1) B= 3	15.7 (12.1) 20.5 (10.2)							
	On my way up the tree I tound a " 60 cm gopher snake								
	On my way up the tree I tound a ~ 60 cm gopher snake climbing around @ 20 Ft up) I took him out of								
	the tree and released	him elsewhere							
	0840 Y = 37.4 (13.6) B = 39	_							
	0900 46 (15) 50.4		3.15)						
	0750 54.5 (15.6), 58.3 (16) 3 (4.5), 37.8 (13.9)							
	0740 42.9 14.8								
	Y 63.8 16.75								
12 -	LB 68.8 16.6								
13 Jun	0755 51.9 15.6								
	B 78.8 38.5 17.6								
ir T	Y 75 34 17.45		10						
12 JAN	0945 61 32 16.7 LB 84.3 51 19.15 18		10						
		7.3 20 11.6 17	No.						
17 Jun		6 18 12 16							
		2 30.7 17.4 2	a.m.						
	. 7	2 37.3 /6 3							
19 Jun	LB 83.5 77.5 21.1 25	T.3 50.5 19.7 38	3.5						
	Y 88 69.5 20.7 24	1.4 43.3 17 3:	3						
	- 70.9 52 18.55 17		8						
21 Jun	1225 69.9 64 19.1 21	1.3 39 16.5 29	.8						
	WPY 85 81.5 21.75 20	4.5 54 19.5 30	9						
	BN 94 88 21.85 26	5.5 61 20 45	「, ス						
23 Jun		3 50.5 18 36							
	WPY 89.3 92 22.6 26 BN 90 98 22.63 2		2 ¥						

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1500 10 Ang 0850 - 0955, Wierdness here. Saw 297, 1608, 1609, + 1610. Did not see either F1367 or 1329. I think there was only one of them here anyway and the other died, because there is a semi power struggle here. But not really - no garricks, no drumming Looks more like mate quarding - lots of tollowing and wakas - little chasing. 1500 seems to have split in two. The main granary is occupied by 297, the 3 juvs, and 4 487 trom 1800 (she's an 1800 broader) There was also a NOBA & sitting peaceably with 4787. Could this be the NOBA Fare saw teeding an 1800 juv on Haystack earlier this spring? Nonetheless, the other half of 1500 (the 2° granary) seems to be occupied by a NOBA & and 1. Z NOBA 199 There is some mixing between the 2 areas. 4787 is interested in the 1500 nest hole and visited it several times. 1500 still has lots of acorns and there was some horvesting going on. * # Group Update * I'm not convinced 9 1367 was ever here (only seen by JB), : she wasn't. 9 1329 disap 880810 ±20. 4787 (B9 1800) moved here as B9 880810 +20 1 Oct 1015 Stopped by For quick census: 2 1608, 9 1610. Now, why hasn't 9 787 chased 1610 out?

3 Oct 0930 Stop by: 1608



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	1800 HNHR
Dec. 87	Acorn Count: 5800
	1030 Empty, and doesn't look that good - though
	Judy did see a bird go in.
13 Apr	1340 Walt reports bird in hole here I climb and with
	seeper see no eggs (not 100% sure but 90%)
20 Apr	seeper see no eggs (not 100% sure but 90%) 0800 8 eggs (7+1 runt) warmish, semi-opaque/translucent. hole 0945 No one hatched but didn't actually see eggs (hole) am - Still not hatched
24 Apr	0945 No one hatched but didn't actually see eggs / Birdin
25 Apr	am - Still not hatched
26 AL.	1315 RL: 4.85 LL: 3.8 + 5 eggs (=1 intert: all runt gone
27 Apr	1320 7.95 1 10 7.75 46 I dead baby 1 pip 2 int
28 Apr	1315 RL: 4.85 LL: 3.8 * 5 eggs (≥1 intert: didn't check) 1320 7.95 Pot 7.75 4.6 I dead baby pip, 2 int 1330 11.5 10.5 6.45 5.3 1315 14.8 12.8 7.45 7.1 2 eggs
29 Apr	1315 14.8 12.8 7.45 7.1 Zeggs
30 Apr	1350 18.7 16.7 8.7 8.7 legg
2 May	\mathcal{L}
4 May	
8 May	1730 59.1 (14.45) 52.5 (14.7) 22.8 (10) 37.4 (12.9)
10 May	1400
/	w 63 15.8 5.1 5.1
	2 46.7 14.05
	- 31 11.05
12 May	1445 B 76 40 16.35 14 15 9 11.3
,	W 69.5 37 16.6 12 13 10 11.5
	- 36 (11.5 - inj)
	° 56 · 15.25 3
14 May	$\frac{1630}{\tilde{w}}$ 76 49 17.65 18 23.6 10.6 19
	B 81.8 51.5 17.55 20.2 25.5 11 18.2 O 65.4 33 16.7 10 - 4.3 6
	Q 65.4 33 16.7 10 - 4.3 6 - 46.3 13.3(in)

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/	1800	HNHR							
16 May	1630 74 43 17.5 16.8 18.5 8	13							
*	- 49.7 14.1 4.5								
	DB 83 63 18.65 24 36.5 15	25.5							
	~ 80.3 61 18.8 22.5 35 16.5	26							
18 May	W 81 71.5 19.5 25 45.7 19	33							
	B 81.4 72 19.4 26.5 47 17	32							
	0 72 53 18.2 20.6 27.8 11	20.3							
	- 50.5 30 14.4 8.2 - 4	4.5							
20 May	1530 MB 87 82 19.75 24 57 19.5	38.3							
1	GWO 81 65 18.9 22.2 38.2 17	26.5							
	- 57.9 37 15.4 - 7.8	9							
j	vm 83 82 20.2 24 56.5 21.7								
22 May	RWNM 83.5 92 21 24 66.5 20	45 Y							
	MDB 84 92 20.3 22.5 66.5 17								
	The other 2 habies were gone (the 2 smaller	r ones, so							
	it wasn't early Fledging (this is day 26) Th	ne door had							
	more litter in it than usual (a sign of predation),								
	yet these babies were fine. Snake? If snake,								
	why did it not kill leat all 4? If small	ler snake did							
	it actually know which ones to eat? Is	this another							
	cost of being a runt?								
	0910 Hello holes - nothing								
12 Jun									
	1545-1625 Watched for nestiness - none. Bi								
	really show up til @ 1600, but after that sat around. Did see 2 Flights to E, but	mostly just							
	sat around. Did see 2 +lights to E, but	where to !							
107	1630 7 + juv L/i in snag up on SHIL 1010 Nest ? in tree towards 1500 / faces lane								
10044	1010 1001 (11 TIPE TOWNING DUO 1 (Tace) 14 ME	/							



1988

	1.800	HNHR
(18 Jun)	Yes a nest. Cut it open. 4 kids, Zinfegs.	I fertage.
	Yes a nest. Cut it open. 4 kids, Zinfegs, 1500 RL = 5.4, LL=5.4, Rw=4.95, LW=3 1635 10.75, 8.2, 8.7, 6.6, B=3.7	3.95
19 Jun	1635 10.75, 8.2, 8.7, 6.6, B= 3.7	hey, This is wierd.
20 Jun	1600 13.2, 9.5, 11.85, 9.1, 5.15	
21 Jun	1600 13.2, 9.5, 11.85, 9.1, 5.15 1745 19.1 12.95 1605 14.5 5.05 Those all 1735 22.9(9.85), 16.4, 22 (4), 17.1, 5.8 Very suspen	g Pesola
22 Jun	1735 22.9(9.85) 16.4 22 (9) 17.1, 5.8 very suspen	:t - k;11 ;t
23 Jun	1605 26.3(11), B=21(9.65), 24.8(10), W=21.5(9.15)	6.2
	1810 37.6(13.35), 28.3 (11.75), 34.3 (12.15), 31.6 (11.4)	
	1725 44.5 (15.1), 39.9 (13.35), 44 (13.5), 40.9 (12.8)	
	1735 47.3 14.8 2 3	
	R 51.5 14.55 3.9 3.6	
	Y 56 16.75 3.9 3.8	
	W 51.9 13.8(inj) 2.5 2.4	
2 July	W 63 35 16.15 12 8.6	-
/	B 58.9 33.5 16.7 9.7 8.2 9	. 7
	R 59.8 38 16.8 14.3 32.5 11	4
		2.2
34 July	1610 LB 65.5 43 17.72 15 18 9 1	5
/	w 64.8 45.5 17.35 19.3 20.9 9.2 16	4.6
	T 69.8 50 19.87 19.7 24.8 12.5 M	1.15
	R 66.1 48 17.85 19.8 23.3 10.2 18.	1
6 July	W 69.5 55.5 18 24 30.3 12.5 20	. 7
1	R 68 57.7 18.7 22.2 33.1 13 24	. 1
	Y 74 60.5 20.65 25 34.7 13 25	. 4
	B 71 52.5 18.55 19.7 27.4 13 21.	2

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	1800 HNHR
8 July	1615 w 73.9 65.5 18.8 26.5 40.6 16.5 27
	R 69.3 68.5 19.05 22 43.8 15.7 30.6
2.	LB 70 62.5 19.3 23 37.1 17 27
	Y 75 70 21.25 26.5 45.5 18.5 31.5
10 Jly	B 72.5 74 20.9 24.4 48.1 16.6 32.6 1650
	1 75.5 80.5 22.3 24.5 56 19 37.8 1651
	R 73 76 20 24.5 53.7 18.4 36.6 1652
	w 73.5 76 19.8 23.5 51.1 20 33.7 1653
12 July	1620 am 75 84 21.6 26.5 57.7 19 39
	KGR 70 88 20.7 22 63.5 16 42
· J	YON 77.4 91.5 23.15 27 66.3 20 43.5
	mw 73.5 86.0 20.7 25.3 60.7 24 39.3
10 Aug	0640-0840 Census: 770, 193,774, 1553, 1650, 787
7	1651, 1653. 1553 is a 9 787 was only
	seen briefly, as was a & KOKO = 1438
	There was some chasing here on roff this
	am. See 1500 notes - 4 787 is at 1500
	acting like the breaker there.
*	* Group Update * 9 787 (Breeder!) moved to 1500
	890810 I 2D to become Breeder. 3 1438 was
	declared never absent from 1800 (any claims to the
	contrary notwithstanding) Stupid computer tucked up.
6 Dec	Acorn Count: Main gran: 3000+ 3 [3500] (saw 5 binds) 886 nestree: 400
	(saw 5 binds) 886 nestree: 400

HORS 28 Mar 1400 Bird in now hole 2' below duct tape trole. It'll working on hole. Dec 37 Acorn Count: 11 Apr 1500 Spied on new hole awhile - no action (did how hinds) 26 Apr Hello holes. No birds in any. What's up? 2 May See bird wear (at) new hole by 85 hole. 9 May sing towards trate has a hole and a bird in the top of the tree. 18 May am Bird in this hole 14 May since 10 May have only seen bird at hole once but did see one at hole this am. 16 May 1000 Bird at trole 10 In 1495 Hello holes nothing. 27 Jun 1300 By growing by. Baby sticking head out. The nest is between the crossings wint the W side of the lane in a deod limb in the big oak by the path into Hors field pure white the path into Hors field pure white the see ref. 28 May 122 72 108 22.22 11 55.5 28 May 122 72 108 22.22 11 55.5 28 Jun 1700 Judy watches here and reports seeing one jun fludge (walked out) and maybe another is ant already. 8 Sept 1100 NOBA (couldn't sex) checking out nest hole. 3 Oct 1915 Stopped by saw no birds ne acorns in gran. Abd? I did tind on a lacorn that looked according out nest hole.			7. C. POTWICTOUT
28 Mar 1400 Bird in now hole 2' below duct tape trole. 5till working on hole. Dec 87 Acorn Count: 11 Apr 1400 Spied on new trole archite - no action (dut hear birds) 26 Apr Hello holes. No birds in any. What's up? 2 May See bird war (at?) new hole by 85 trole. 9 May Snaggy snag towards trate has a hole and a bird in the top of the tree. 10 May am Bird in this hole 14 May Since 10 May have only seen bird at hole once, but did see one at hole this am. 16 May 1000 Bird at trole - I've been checking this rother holes since then - nothing. 10 Jn 1445 Hello holes - nothing 27 Jun 1300 By providence I tird the nest - I heard a squee while driving by Baby sticking head out. The nest is between the crossings with the W side of the lane in a deed limb in the big oak by the path into Hers field put it wisks tree See vet. 10 Jun 1430 20 BB 1621 77.4 105 22.4 14 56.5 20 Nor 1422 72 108 22.22 11 55.5 13 60 28 Jun 1700 Judy watches here and reports seeing one jun fludge (walked out) and maybe another is out already Bept 1100 NOBA (couldn't sex) checking out nest hole.			11.70
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while driving by Baby sticking head out. The nest is between the crossings just the W side of the lane in a dead limb in the big oak by the path into Hors field principle whest tree See ret. [2] BB 1621 77.4 105 22.4 - 14 56.5 [2] MN 1622 72 108 22.22 11 55.5 nob 1623 82.8 110 23.25 13 60 28 Jun 1700 Judy watches here and reports seeing one jun fledge (walked out) and maybe another is out already 8 Sept 1100 NOBA (couldn't sex) checking out nest hole.		27 Jun	1300 By providence I find the nest - I heard a squee
is between the crossings on the W side of the lane in a dead limb in the big oak by the path into Hors field path west tree See call that igs. See ret 1 14 56.5 (2) BB 1621 77.4 105 22.4 - 14 56.5 (2) MN 1622 72 108 22.22 11 55.5 MOB 1623 82.8 110 23.25 13 60 28 Jun 1700 Judy watches here and reports seeing one jun fledge (walked out) and maybe another is out already 8 Sept 1100 NOBA (couldn't sex) checking out nest hole.			
lane in a dead limb in the big oak by the path into Hors Field put west tree See ver I was harting. See ver I was 1621 77.4 105 22.4 - 14 56.5 (2) BB 1621 77.4 105 22.22 11 55.5 (3) NN 1622 72 108 22.22 11 55.5 NOB 080 1623 82.8 110 23.25 13 60 28 Jun 1700 Judy watches here and reports seeing one jun fledge (walked out) and maybe another is out already 8 Sept 1100 NOBA (couldn't sex) checking out nest hole.			is between the crossings int the W side of the
(3) BB 1621 77.4 105 22.4 - 14 56.5 (2) PWP 1622 72 108 22.22 11 55.5 mob obo 1623 82.8 110 23.25 13 60 28 Jun 1700 Judy watches here and reports seeing one jun fledge (walked out) and maybe another is out already B Sept 1100 NOBA (couldn't sex) checking out nest hole.			lane in a dead limb in the big oak by the
(3) BB 1621 77.4 105 22.4 - 14 56.5 (2) PWP 1622 72 108 22.22 11 55.5 mob obo 1623 82.8 110 23.25 13 60 28 Jun 1700 Judy watches here and reports seeing one jun fledge (walked out) and maybe another is out already B Sept 1100 NOBA (couldn't sex) checking out nest hole.			path into Hors tield thatings See vek
(2) BB 1621 77.4 105 22.4 - 14 56.5 (2) MN 1622 72 108 22.22 11 55.5 MOB 1623 82.8 110 23.25 13 60 28 Jun 1700 Judy watches here and reports seeing one jun fledge (walked out) and maybe another is out already 8 Sept 1100 NOBA (couldn't sex) checking out nest hole.		D.M	1430
28 Jun 1700 Judy matches here and reports seeing one jun fledge (malked out) and maybe another is out already 8 Sept 1100 NOBA (couldn't sex) checking out nest hole.		(2) BB	1621 77.4 105 22.4 14 56.5
28 Jun 1700 Judy watches here and reports seeing one jun fledge (walked out) and maybe another is out already 8 Sept 1100 NOBA (couldn't sex) checking out nest hole.		(2) PWP	1622 72 108 22.22 11 55.5
8 Sept 1100 NOBA (couldn't sex) checking out nest hole.		0B0	1623 82.8 110 23.25 13 60
8 Sept 1100 NOBA (couldn't sex) checking out nest hole.		28 Jun	1700 Judy matches here and reports seeing one jun
8 Sept 1100 NOBA (couldn't sex) checking out nest hole.	,		fledge (walked out) and maybe another is out already
		8 Sept	1100 NOBA (couldn't sex) checking out nest hole.
tind an along that looked Acwenter.			
	-		tind an alorn that looked Acwesten.

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	Hay-Blom
Dec 87	Hay-Blom Acorn Count: 8760
	1500 Hellord holes - nothin.
	0745 - 0820 Watched H-B For nestiness (From Far Knoll). They
	(ser birds) spent a lot of time in the 87 spring "suspect"
	tree (ushill trom granary) One birds spent à 15 min
	chasing a steller's jay around the tree (esp the Wside) -
	chasing a steller's jay around the tree (esp the Wside) - Another ACW joined briefly, and at one point they
	chased a starling.
5 Apr	0900 1 egg - couldn't reach it. Old door talling
	apart. Needs newdoor, should they be tossing?
6 Apr	apart. Needs new door. Should they be tossing? 1430 Cut new door. No eggs inside. Eld we bring
8 Apr	1430 No eggs - I sure hope they've just tossing.
15 Apr	1236 No eggs - back to the drawing board folks -
17 Apr	Bird tapping in Ferceline Role
18 Apr	Bird in tenceline tole
20 Apr	1240 Checked terreline hole - 8 apagne eggs.
22 Apr	0945 Not hatched yet (the I should have counted)
23 Apr	1300 Not hatched (counted only 7 eggs lin pretty sure) 1200 Predated - no eggs (or even pieces - snake?) 1800 4 Fresh eggs (#1-4[1; s Freshest]) in webbing hole smay.
25 Apr	1200 Tredated - no eggs (or even pieces - snake?)
4 May	1800 4 tresh eggs (#1-4[1 is treshest]) in webbing hole >may
· 11 //ay	10700 10 eggs. Wow This will be great brood reanchion:
18 May	0645 RL= 5.6 LL = 5.15 RW= 4.2 LW= 5.65 B= 6.8
	egg 2 int (removed), egg 3 not set hatched plus 3 other unhatched
	None pipping (well, maybe one was)
19 May	0900 RL = 9.6, LL = 9.4, RW = 7.05, LW = 9.7, B = 11.0, BL = 5.95, BW = 4.3, WL = 4.4
A #	BL = 5.95, BW = 4.3, WL = 4.4
20 May	0740 The critical day for broad reduction. Gopher snake in nest.

10.75

	H-B HNHR
(20 May)	He'was in deep so I couldn't get it out. Damn - the
	He'was in deep so I couldn't get it out. Damn - the nest of the decade and it gets predated on the single most critical day for brood reduction (8 kids!) 1345 hello'd holes - nothing
	single most critical day for brood reduction (8 kids!)
30 May	1345 hello'd holes - nothing
4 Jun	0800 "
	0630 " (didn't go to all of them 1520-1540 Watched suspect (87) tree and 88a tree Saw
	no birds visit.
11 Jun	1530-1620 Watched For nestiness from and barn-nothing.
	Then walked around helloing - nothing. For birds even seen.
23 Jun	1645-1800 Watched From blind on uphill side. Got a few
	hints (1 thought) but when I checked em at 1800
\$ July	there was nothing. I'm getting disgusted fucking leaks
9 J/y	0815-1015 Spied - nothing. Saw birds thy catching
/	but they didn't go anywhere with the tood.
13 Jly	0645 - 0830 Watched (From top of hill in blind). Those
/	were birds, but no pattern to their movement
19 July	Well, it Finally happened - Jane tound juvs Flying avoid
16 Oct	Ambush in webbing hole caught 2 NOBA juvs. 1673
	+ 1674 Blood + plasma taken @ 8 tubes + each bird
	Pulled string at 0515, bled 73 0630, 74 at 0640
12 Dec	Acorn Count: stump 300, uphill tree 100, suspective 300
	main gran (1 way 2000) (2 rd way 1700) saw 941, 1085, chasing & KWN, 9 KY/K
	saw 941, 1085, chasing & skwn, 9 KY/K

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	1 be	w Hay							HNHR
Dec 87				10,00	50				
2 Apr	143	30 3	3 Fres	h eggs	in 8	7 hole	Nun	r bered	
5 Apr	08	30:(1)	24.05 x 1	7.4 (2)	24.65 ×	9.85 (3)	23.3 ×	9.56 (4)	14.15 × 19.25
12 Apr	Ex	(DEJIM	ental	Gre	ub -	8 re	mova		
	Wal	TO DOV	ts l	Pag Mis	sina (hotoro 8	rela	350 Su	spects a
	Die	re of	Dan	broke	if C	h well	100		spects a
14 Apr	150	o No	one	hatched	vet		and the state of t		
15 Apr	11	O RL	= 1.3	LL = #	. 3 R	5.0 w = 100	e 995	3 + 4 ha	tched
						RW = 9			
¥	3					1.			
20 Apr	121	0	22	(R)	18.2	1	8.6 €	?	
21 Apr	121	5 2	5.1 (10	.>) 2	2 (10.8) 2	2.5(
23 Apr	1					1) 3			
	ž.					(9) 3			1
27 Apr	i						2.5 13		
					•	16.8		10.7	3
,	•					haan arangalah utumnyan usumok di Addilah sa afundisiaksususususususususususususususususususu			
					-	managharan and the second state of the second second second second second second			
4 May	1715	81.5	65	18.45	27.5	37.7	17.5	24.6	2
/						25.5		21.2	
	1					19.5		20	
8 May	1600	81.4	77	20.5	27	51	19	31.8	1520
/	Y	83.8	78	19.7	22,6	45.9	18.5	33.5	1521
	R	86.2	86	19.2	25	59.5	23.2	38.2	1522
11 May	073U PK B	82.4	92	21.4	25	65	ZI	41.1	520 Pink
	RM	83	100	20.1	24	72	29	47	520 pink 22 2) yellow.
	MM	83.6	85.5	20.6	23.5	58.5	18	4/ 152	· blue

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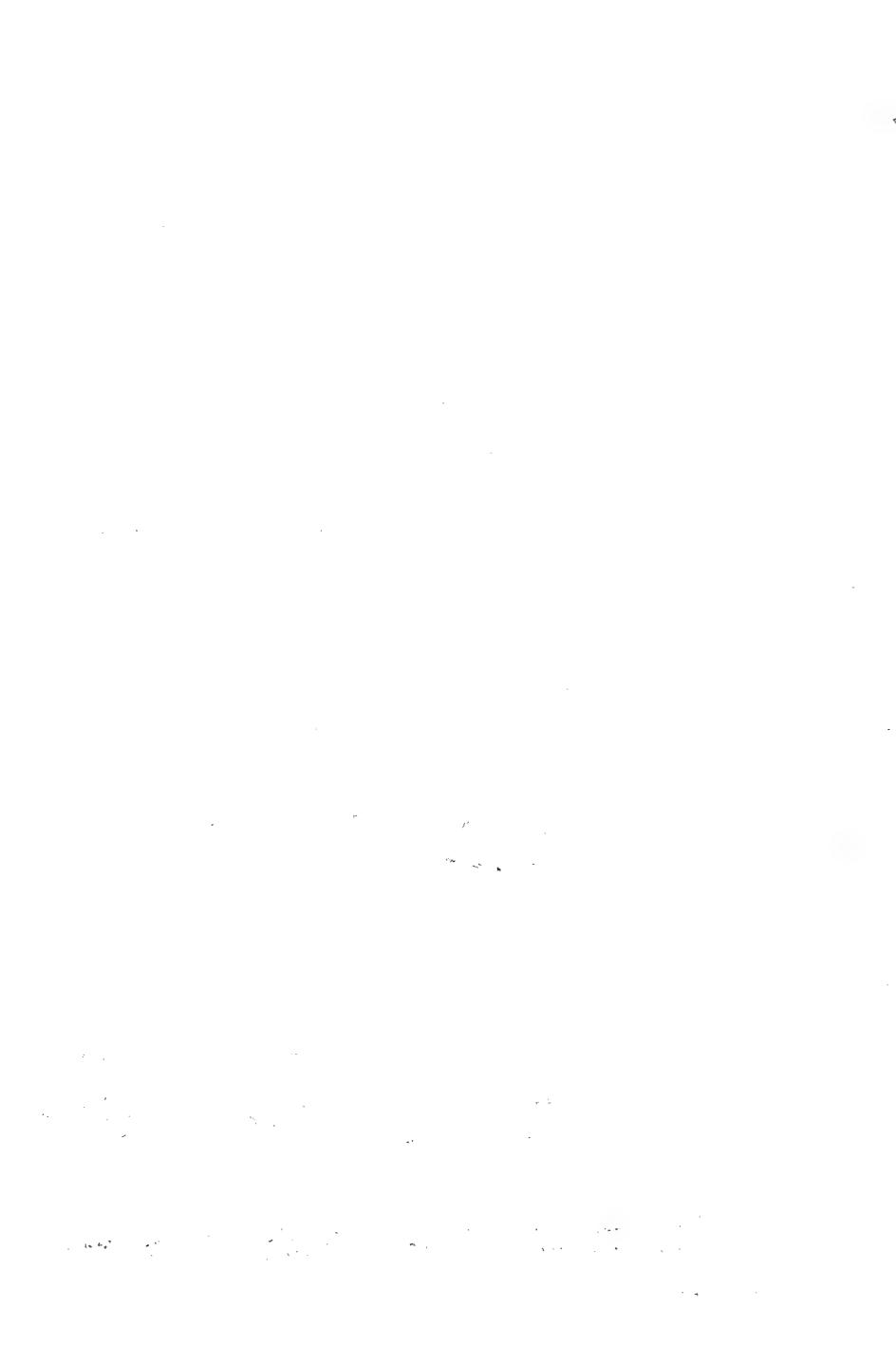
		LHay			HNHR
	30 May	1315 Bird in nest 0745 Check nes	hole! 5 eggs.	- not quite opa	igue or thant
73	4 Jun	0745 check nes	t - not yet ho	itched.	
۵	\$9 Jun	0600 RL = 8.0	LL=6.58 RU	N = 5.4 B = 3.4	12 + 1 int egg
		0620 12.24			
		0615 15			
	12 Jun	0610 18.8 (MV)	14.6 12.4	15 gone	+ egg
~~ \	13 Jun	0610 23.1 (10.5 in)	18 (9.75) (K)	17.5 (9.3)	?
	14 Jun	0605 26.6 (in)	20.4 (10.68)	20.2 (10.55)	
and a second	15 Jun		24.7 (11.7)		+ egg
		0740 39.3 (15)			+ egq
	19 Jun	0730 50.18	16.5 3.3	- 3.8	
		K 40.75	14.95 2.5	3.0	-
		- 40.95 1 0750 11 3	4.6		
	21 Jun	K 44.3	16.2 5.6	- 6.1	1
		M 58	18 8.1	7	
		- 46.2 <i>i</i>	15.85 45	3	4.5
	23 Jun		7.1 10.9	7	9.5
		K 55.4	17 11.35	8.5	10.2
		n 69.8 41	19.5 15.8	13	-
	26 Jun	M 75.3 59.5	20.8 26.6	31.8 17.5	23.5
		K 64 50	18 19.7	24.2 12	20
		- 64.1 51 18	8.35 20.1	24.1 11.2	19.8
	28 Jun	M 79 70,5 2	1.65 27.1	44.2 20	31.3
		- 72 64.5 1	9.15 28.5	35.8 15.5	27.5 tegs.
		K 66.9 62.5 1		35.9 17	27.5
	30 Jun	K 71.2 /3 1		47.3 16	34.5 1627
		- 76.2 74 m 825 82 2		55 21.7	1/ //3
					1029

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	LHay	HNHR
2 July	1450 MW 73.5 84 20 26.5 57.8 20 40.5	2.7
/	MRO 76.5 85 20,2 25 57.2 19.5 40.7	28
	BYM 80.4 92 23.85 26 66.6 18.5 44.4	29
4 July	MRO 70.5 94 20.8 24 67.5 22.5 46.5	2
/	BYN 77.2 101.5 24.2 20.5 74.5 22 49.3	29
	MW 71.7 94 20.55 23 67 22 46	7. 7
13 5/4	0845 - 1115: Census: Saw all birds listed repe 1155, 1046, 1146, 1266, 1520, 1521, 1522. Sa new J RPK. 1522 > this juv. Where's 1427?	atedly.
/	1155, 1046, 1146, 1266, 1520, 1521, 1522. 50	2 W
	new J KPK. 1522 > this juv. Where's 1427?	juvs?
17 July	0815-0950 Juv watch; saw mw and 1 ofher	VOID
	juv. No interactions. Hot (100°)	
23 July	0700-0915 Juv watch: saw KPK= DB-YM =	
	1155, 1046, 1146, 1266, 1520, 1521. 1155 >> 1522.	
	Saw adults go to the hole several times. At	one
	point 1846 entered and later came out wit	
	mouthful of Feral matter. Erez, are they going	Fo
	nost again? They still have 1000's of acov.	15.
	of intruder KWW/M chased away (1255-	from
	RAJN!)	
	* 1429 at Blun 2 1522 there too	
19 Nov	Set ambush - no one even came close	
20 Nov	Tried again - nope.	
12 Dec	Acorn Count: Eview 3200 (E square ~35, w square	= 47)
	saw NOBA & chasing nuthatch snag : 1450	
	saw 1521 and Robind 10,000	
	that may have been & (?)	



		Central Canyon
	28 Mar	1000 NOID & seem sitting in big dead tree Reseated.
		1000 NOID & seem sitting in big dead tree Repeater, chasing magpies. We approached from W, he flew E
		toward Ref 1.
mander 6.00	Dec 87	Acorn Count:
	27 Afrar	Reynolds reports bird in trole here. Is this Lagura?
	28 Apr	1730 Cut hole, 3 fat - sassy babies @ 10 days ald
da mary	9 May	1730 Cut hole, 3 fat - sassy babies @ 10 days old 0500 YGY = 74.5 (74) MM = 71.8 (68) RBM = 79 (74)
	12 May	1600 RBM 88 93 23 24.5 65.5 17 44 G
	/	YGY 87 95 22.75 24 66.5 17 42 P
		mm 80 87 22 24 60.5 22 42.5 Y
	4 Jun	0900 Hello'd hole - 2 juvs Flushed (one was MM =) Also 2 other birds in tree (1 was what)
		Also 2 other birds in tree (1 was what)
ndraffa santid . s	9 Jun	1800 Hello hole - nothing
	10 Jun	1540-1545 Watched hole from Blm Pond. Birds went in ()45?
-	30 Jun	0630, 1030 Hello holes - nothing
		1300 Think I saw 1525 (MVM)
	10 Dec	Acorn Count: ~ 150 C'est la vie.



	Blm
28 Mar	0940 Saw 3 birds (299,18) One 9 had Y.K. Mv.
	This is probably 1459 (others puob. 1325, 1167)
30 Mar	This is probably 1459 (others puob. 1325, 1167) 0845 Starling nest in high "nail" trole, another in one
	of the low holes in the next tree to SW.
Dec 87	Acorn Count: 7050
\$3 Apr	0900 Saw 2 1167. Judy saw ACW's & starlings in
/	the hi hole in tree Wat gran. Also interest in the
	"helpser" hole in gran
10 Apr	Judy reports starlings in the hole 0720 Bird Flushes from near "helper" hole (Efac maingran)
·	1100 No one in hole
11 Apr	1745 Spying from Fair away I see 2 birds as to the uncut down facing hole in the SW pointing limb in the gran.
1	down tacing hole in the SW pointing limb in the gran.
	The hole has a string.
	1800 Bird in Thole
20 Apr	0930 Cut open hole (nice!) 6 eggs (5+1 runt) opaque, (hatch soon?)
22 Apr	0915 RL= 3.7 LL= 4.5 RW = 4.3 Runt egg gone. OF the 2
	remaining eggs, I was intertile - other looked OK but not pipped.
	RL baby didn't look good - looked young but very thin. 1730 RL - 5.9 LL=6.18 RW= 8.4 + 2 eggs
23 Apr	1730 RL . 5.9 LL=6.12 RW= 8.4 + 2 eggs
24 Apr	1800 RW = 12.4 RL = 6.2 + Zeggs. RL had its
	entire neck grotesquely intlated. Its mouth was open, tongue
	dried & shriveld. Looked like it couldn't eat and
	had difficulty breathing.
26 Apr	1700 20.5 (9.1) month was all full of wood chips + Zeggs
2 May	1730 46 (13.7)
4 May	1645 53 (15.0)

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	Blm 1 HNHR
10 May	1810 73.6 16.45 4.3 6.5 1615 83.5 16.85 8.53 9.5 10.5 (2)
11 May	1730 I walked up to Ear Knoll and Flushed 2 AcW's toward
/	Canyon Vista. I checked all trees for holes +
	Found none. Later back at the Knoll I saw Z
	birds again, & KWNM and NOID of who flew
	to Blm 1. The 9 flew to Canon Vista - chased
	another bird out. 1630 83.5 42 18 13.8 17.1 12.5 17.3
12 May	83.5 42 18 13.8 17.1 12.5 17.3
14 May	1530 89 53.5 19 20.5 27.5 15 24 1710 87 66 19.9 24 39.4 17 30 1730 88 77 20.5 24 50.5 20 36
16 May	1730
18May	88 77 20.5 24 50.5 20 36
20 Mary	87 88 21.55 26 61.5 18.5 43.5
2 Jun	1730 Bird in 87 hole. Peep ropen: 8 tresh warm eggs!
3 Jun	0545 Put my of tangetoot round base of free.
9 Jun	1730 Set a snake net Checked hole - still 8 eggs.
11 Jun	1640 Still not hatched
14 Jun	1640 Still not hatched 0635 " " " 1/ 0640 RL=3.9, LL=3.6, RW=4.7, LW=6.05, B=4.4 (BW=7) 6.5
15 Jun	0640 RL= 3.9, LL= 3.6, RW= 4.7, LW=6.05, B=4.4 BW=7, 6.5
	0635 4.7, 3.0, 7.65, 9.0, 6.6, 10.35, 9.9
	0710 4.5, -, 11.8, 12.7, 9.0, 14.2, 14.0
	0705 3.75 (rem), -, 14.65, 15.6, 13.3, 19.6 (9.75), 19.1 (8.7)
	0650 19.1 (10.15) = , Lw=19.3 (10)=(Y)(B=16.7, Bw=23.4(1)=(R)225(9.8)
	06.55 G=22.9(11), Y=24.2(11), Bk=19.2(10.75), R=28.5(12), M=27.6(10.7)
	0625 29.6(12.35) 34.1(12.45), 27.4(12.4), 38.7(13.7), 33.4(+2.3)
	0545 38.2(14.2), 41.5(14.47), 32(14.3), 46.4(15.75), 44.7(14)
KO NAN	



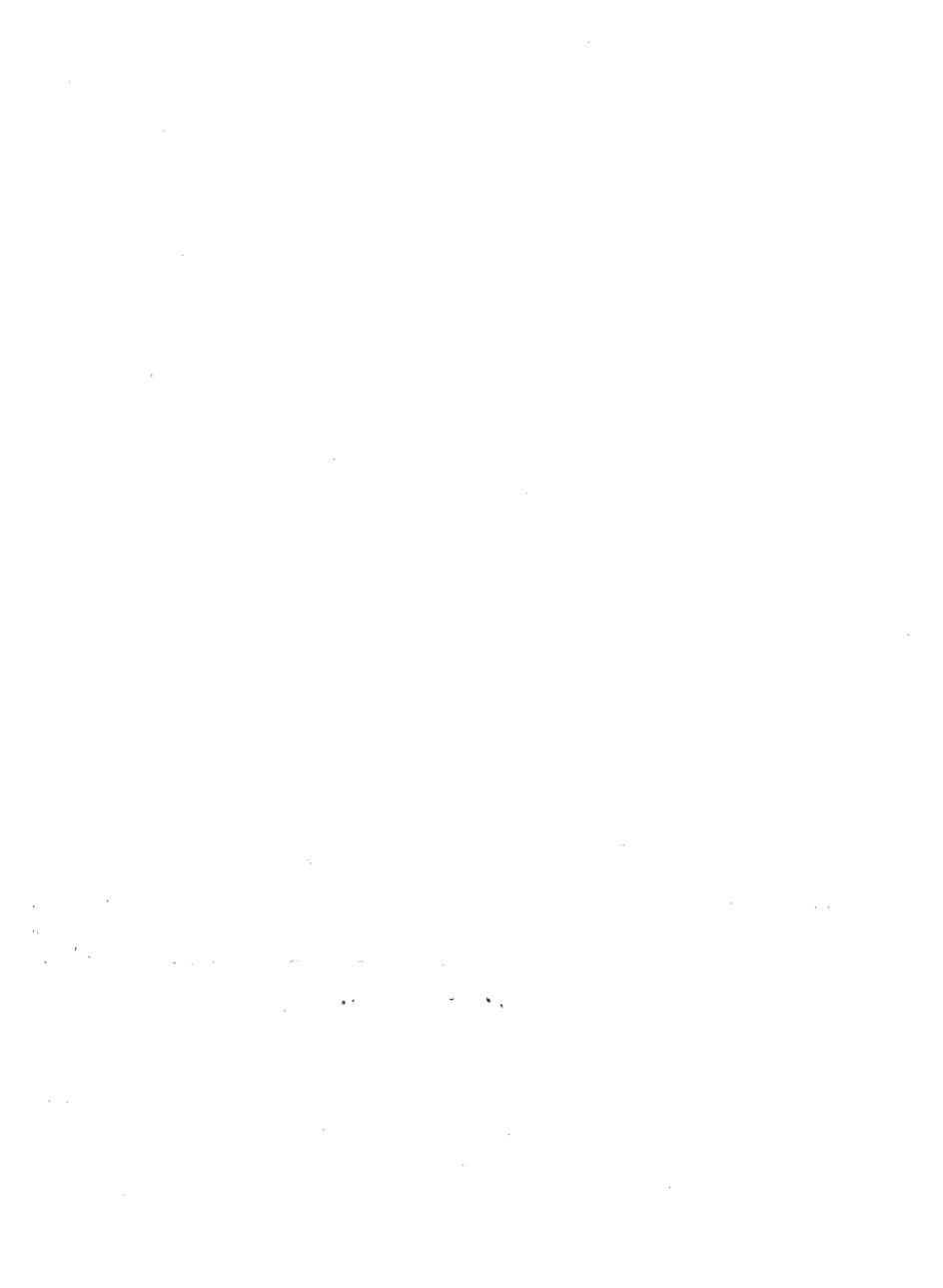
W						
<i>j</i>	Bln					HNHR
26 Jan	M 52.8	15.2	3		2	4
We become active active and active ac	Y 49	16.1	3.2		1.8	3, 4
2	R 35.9	17.35	6.8		4.3	5.6
	G 47.5	15.3	2		2	3
	- 39.8	15.36				
28 Jun	0625 G 52.2	16.75	7		4.5	8
film that, were near powers were replaced personnel or controlled and advantage of the second	R 61.5 38	18.85	14.4	15	9	11.2
in an analysis of the second s	- 42.3	16.8	4.6	- A	2.7	4.6
	M 58.4	16.6	9.5		5	9.5
1985 - Julius in signigen op over 1884 gigt hekensy henge park sing Massimum ke wenye se	Y 53.5	17.29	8.7		5.4	7.7
30 Jun	R 64 48	19.85	17.2	25	12	19.2
)))_	- 51.5 34	17.8	10.3		5.2	9.9
	G 59 39.5	18.25	13.8	14.8	7.5	14
	m 64 42	17.85	16	17.8	8	15
	Y 59.8 38.5	18.7	16	17.2	8.4	15
/ I July	R 669 55	20.55	23	30.6	13.5	23 8187
	G 61.4 45	18.6	17	20	8.5	18 8188
	- 559 40	18.45	14.2	14.7	7.5	13.5 1648
	Y 61.6 44.5	18.85	18.3	22.2	9.5	17.5 8189
1	n 66.5 47	18.15	19	23	9.2	18.5-1649
2 July	0630 Y 63.4 50	19.45	20.3	27.1	11.3	70.7
	- 60.8 45	18.7	165	19	9.8	165
	m 67 53	18.7	205	27.6	11.7	22
4 July	M 75.9 63.5	19.25	27.6	38.5	17	285
	- 67.4 56.5					
6 July	m 80.3 75	19.95	26.7	48.8	17	35.2
,	- 75.5 66.5	20.35	23.5	39	14.2	30

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	B/m 1 HNHR	
7 July	0845 76.5 73 20.5 27.5 45.5 16.7 33.3 (18) M 84.4 80 20.4 28.2 54.4 17.5 38.7 (16) 0635 MM 83 89 21.25 23.5 63.9 16 44.4 16.1 KN 72 84 21.4 26 55.4 18 39.6 0705 82.5 99.5 21.85 25 74.4 21.5 51 74.8 94 22 23.5 66.5 17 46.1	(48)
/	M 84.4 80 20.4 28.2 54.4 17.5 38.7 [16]	49)
9 July	mm 83 89 21.25 23.5 63.9 16 44.4 164	7
	KN 72 84 21.4 26 55.4 18 39.6	
11 July	82.5 99.5 21.85 25 74.4 21.5 51	
· /	74.8 94 22 23.3 66.5 17 46.1	_
Nov	Saw F 7 1648	Arthur and a second and a second as a seco
10 Dec	Acorn Count: 3500+2000 + 1500 = [7000]	.,
Annual and the second s	Saw 4 birds (including 1167 - 1649 RBR)	, and a second s
		authorium volume alle lateraper plante
		A .
A. A		
and Principle - No or included the Principle and Alberta Charles and Alberta Charles		_
		a.
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der affektiviten im der sterfer folgt format die kriter i der 20 de Martine von der sterfer i der sterfer folg		***************************************

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	M. tormicivorus
	Laguna
/	I Flash it - hear kids. Will return to cut open
	1730 Dog my cats - bird in W facing hole in Laguna tree 1 Flash it + hear kids. Will return to cut open 1830 Y = 49.5 (15) Q = 52.5 (14) boul 250
	Acorn Count:
2 June	1815 85 69 20.5 22.5 43 17 31
	0 80.4 76 19.1 21.3 49.7 18 33
1 July	
1 Nov	0945-1030: Pos 1D: 1457 + 1589. 1500 Saw 1589 (8) (YKPN) at Blom Z
10 Dec	Acorn Count: 0
*	Acorn Count: 0 * Group Update * 1589 disap 581215 ± 1 M



	71 - 1/4/1/D
	Blm 2 HNHR
	Acorn Count: 1250
10 A,>5	0830 Starling nest, ACW : tree top
19 Apr	1815 hello hotes - nothing
	1640 hello holes - and find some new ones, but no nest
11 May	0800 holes (esp one Walt showed me) nothing
	1800 Vatched 1/2 hr For nestiness. Nothing A
	suspicions disappearance to one tree, but 1
	tound no hole's
	1640, 1655 Itelléd hole - nothing.
/	0755 Hello hole - nothing
22 May	1630 Watched hole 5 min, bird to hole (not in) Climbed
	and peeped - empty. Door had big gaps so I Dapped it.
30 May	0920 live been helloing the hole all week - nothing.
/	There was a bird sitting near the low holes in _
A MARINE MALLE AT A THEORY CONTROL OF THE TOTAL CONTROL OF THE CON	the dead small limb in the snaggy tree by L. Coneis
4 Jun	the dead small limb in the snaggy tree by L. Conejo_ 0545 Help holes - nothing
	1500 Power Struggle: 3-4 birds, chasing, drumming, garricks
12 Jun	Jane reports no unusual activity here.
3551	Cruised by Canon Vista - nada. 0740 2 very bold birds here but no scope (3 birds!?
July	EID- IEUD III - II
3 July	1510 1570 WATER POLOR (2 JUICK VISITI)
10 July	0810 PID on 4. EDLE
11 July	0715 -0815 Census: 9 1356, 8 BYN/DB-LB, 8 OKO LEOKO -
6	The 2nd of was chased by the 9 a couple times. The
	other of sat peacetully with him though. At one point
	2 birds checked out a hole. A Lagu jur sat in the
	sparse free by LC awhile.

		Tornicivorus
		Blm 2 HNHR
	14 July	
		and 2 birds Flush. The jux stays. Of course I don't have binocs but I think he is banded.
		don't have binocs, but I think he is banded.
		* The new & here is 1427 from LHay. J1522
		was the RM bird here with him
- Auditoria	9 Ang	0705 8 1427 and 21 other bird here
	1 Nov	1500 3 1427 and = 1 other bird here 1500 3 1427 and = 1 other bird here 1500 3 1427 and = 1 other bird here 1500 3 1427 Also 1356.
	10 Dec	Acorn Count: 1000
industria, ma		
he age was young		
n.mah-turu		
-10		

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	Blm 3 HNHR
28 Mar	0845 8 G-W(N)/LG (not a great 1D, but I'm sure
	of the (N) and Jane's sure of the M) He was
	at the saddle tween B/m 3 + Rajn, - Flew back
	to Blm 3. There's a vice new trole in the leaning
	trop NF of the armon Thosa are 7 may below
	over in the 2 granary toward the saddle
Dec 87	over in the 2° granary toward the saddle. Acorn (ount: 3100
1 Apr	1630 Bird on limb above new hole in NE leaning tree.
3 Apr	1430 Bird at new hole in leaning tree May have backed out.
	0845 Checked hole - not complete yet could be awhile.
10 Apr	0840 Helled holes - nothing
19 Apr	1825 3 birds Flush From the tall tree tourish Blm 2.
	(some vice holes). No one in leaning tree hole (or others)
22 Apr	1400 Bird in leaning tree hole -
25 Apr	am Walt cuts open hole - but no eggs.
29 Apr	1700 Checked hole - no eggs. Damn. Saw a 9 KO (or OK)
11 May	0815 Helled holes - nothing
20 May	1645 Hellod hole-nothing - what do you expect when you
	ambush the nest at night. Jesus (hvist
21 May	0800 Bird in bole - only you Watter can have this kind of luck
22 May	1445 4 eggs. Released bird (put 2 red dots on Torphead)
28 May	0830 Not yet hatched. (Didn't actually peep hole) Bird in hole
30 /ay	0900 Well, nice experiment. One egg gone, the other
/	cold, one cracked. 3 tail teathers in nest hole.
4 Jan	1425 Hello holes - nothing, except a suspicious flush
	From the W side of old nest tree
8 Jun	and thy toward 2° sman.
	no , i lemand Z Jan ,

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		·		
				~
	·			
			•	

		Blm 3 HNHR
17	Jun	0315, 0930 Hello'd holes - nothing. Jane reported
		wierdness + vocalizations here the other day
19		0815 Nest! In traditional tree new hole on back
		side. 4 opaque eggs. Needs to be opened
		1500 Cut open. Eggs aren't really opaque - they are
		1500 Cut open. Eggs aren't really opaque - they are borderline t/ncent/opaque (on the t/ncent/side)
26	Jun	Hello - no one in hole
27	Jun	0940 hello-nothing. Climb-4 eggs. Open-not cold
28	Jun	0745 " " Hit limb w rock - hear no babies
29;	Jun	Did I miss it yesterday - should have climbed
		0825 RL = 7.4 RW = 7.15, LW = 4.0 4th egg seemed
		to be pipping - was capped by another egg shell. I opened the pip a little - detected no movement and the
		the pip a little - detected no movement and the
		chick inside wouldn't pip back at me.
30	Jun	0810 RL= 8.8 RW.8.55, LW= 3.9 The other egg
		progressed no turther. I guess it was dead
		yesterday I removed it
	/.	0805 RL=10.99 RW=8.99, LW=4.35
23	July	0720 12.7 11.5 4.25
3 3	July	0730 14(9.1) 13.9(8.25) > gone
		0800 RL = pB = 17.7 (9.82) LL = R = 16.35 (9.0)
		0715 21.35 (10.85) 20,2 (10)
	/	0715 24.85 (12.3) 21.75 (11.6)
		0755 31.4 (13.75) 25.5 (13.25)
12	Jaly (25.5 38.5 (14.6) 26.4 (13.85) dead-removed
14 5	wy !	0640 38 (15) looked bad. Should've brought food. 1130 Stuffed him tull of dog food
	,	1/30 Stutled him Tull ot dog tood

))		
		Blm 3 HNHR
	23 Oct	Jane reports 5 birds (+2 more that couldn't get in)
		roosting in the tirst 88 nest hole.
	24 Oct	1 set ambush, but only I bird goes in (no others even visit)
	250ct	0730 Taking down ambusher I notice that the
		birds here are very bold + vocal. 5 sat in 2nd
		nest tree while I just stood there (also heard
		more in quother tree. So there's been a power
		struggle - + they're still getting to know e/o.
	_	More voost natches - durys just 1 bird
	2 Nov	
) 1		not previously seen since LHay P.S. (1987), caught
		2 NOBA 32 (now 1675 + 1676). 1 think
may * Angeron you may be for the page of the		there are still birds to be caught here (is a PS
		still going on here? Blood + plasma
	5 Dec	
		set amough at the lower hole of the pair in the
		traditional tree - a bird went in Jut 1 then turned
		to watch the 88 hole. There was no one in the
		the truditional hole this am - either because it left
		last night or escaped this morning thru the upper
		hole - to which the lower is now connected.
	10 Dec	Acorn Count: 3 may = 2700
		500 9 0?/
The state of the s		

		,	
1			
			5.

GAZO 28 Mar 0830 Bird in hole in balancing limb tree (to w). is highest in tall vertical limb Dev NET	Hole acing
is highest in tall vertical limb DEV NET	acing
is highest in tall vertical limb DEV NET	acing
Dec 87 Acorn Count: 5390 (42)	y hatched
= 1 Apr 1600 Well. Babies. This means FED@ 17 Mar! The	
today lacredible Bad out	
2 Apr 1600 RL = 6, LL = 8.8, RW = 7.6, LW = 7.5	witch 4(?)
2 3 Apr 1615 8.2 11.75 10.4 10.5	
3 4 Apr 1600 11.6 15.75 13.0 14.1	
5 Apr 1550 14.1 20.3 (9.5) 17.8 169	
5 Apr 1550 14.1 20.3 (9.5) 17.8 16.9 6 Apr 1550 18(10.15) 24.4(10.5) 21.5(10.2) 21.2 (10.5)	
7 Apr 1610 21.75 (11.1) 30.6 (11.7) 26.8 (11.4) 25.9 (11.5	
8 Apr 1550 25.3 (12.15) 33.5 (12.6) 31.4 (12.4) 29.5 (12.4)	
9 Apr 1545 32.5 (shif) 41.75 (13.8) 36.5 (13.25) 34.5 (13.3	
10 Apr 1545 38.1 (13.95) 44.4 (14.7) 41.4 (14.2) 38.0 (14.	_
11 Apr 1545 44.5 (15.3) 47.7 (15.5) 47 (14.9) 43.5 (15.	V
12 Apr 1540 50.2 (16.15) \$55.3 (16.13) 3.2 (3.4) \$52.2 (15.8) 3.0 \$49.5 (16)	28/23)
13 Apr 1525 8 W W Bill 6th 10 TS T	4.5
P 52 \$617 3.3 2.4	Artisontini kapida digangkang sama ana atau atau ayo
G 58 16.9 5.7 4.1	
5 53.2 16.8 4.5 3.2	
R 55 16.5 5.8 3.0	
14 Ar 5 54.8 17.5 7.5 3.6	
P 53.6 17.8 5.5 3.35	
1 3 41.3 17.8 8.5 4.8	
R 59.9 17.5 9.2 3.5	
15 Apr & 66.2 18.3 11 4.8	
5 58 18 10.75 4.3 P 58.9 18.6 8.3 4	
R 60.9 17.8 13.15 4.6	

1	

.)		C 1	7.0						HNH	P
	1	GA			- ()		. 6			-
	17 Apr	1645	Wt	Chor	- Bill	1°5	16	TS	T	· · · · · · · · · · · · · · · · · · ·
		P	67		19.5	5 16.	. 2			
		5	69.8		18.	7 17	19		Filthy	
		R	71		18.	7 20	3 22			
		6	75		19,	3 17	7 19.	4		,
	18 Apr	1515 \$5 \$P		.5	19.5		•	Z	cleaned	
the state of the s		& P				55 19.		//	due to door	
erene armeniar distilluda sistem		G	72		19				due to door leaka	q?)
		1515	75.		19.6	riteriteriteriteriteriteriteriteriterite				
	20 Apr	R	75.2	62.	5 19.6	26.	7 36.2	2 10.7	22.5	-
		P	76	55	20.3	3 22.2	2 29.1	11.9	19.2	gradigina mahajidi. Alipina di dhegji, dheji di Apenghasiya ^{Ap}
	en performance communicación français de foram de la constitución de l	G	81	60	20.2	20.5	33.3	13.7	23.3	navitalistiin kalitaratiin valitavatiin ta
)		5	76	60	20.5	25	33.7	10.3	21	blood
on or handless of the control of the	23 Apr	1500 P.	79	72	21.25	78.1	47.5	- 16.8	29.8	(2)
		Ge	88.3	76	21.2	24	50	17	32	1
managana (kan		5 r	80.8	277	21.1	32.5	50.6	16	32.3	(3)
		Rr	81	78.5	20.4	24.7	52.7	14.4	33.3	(4)
		G =	1470 =	(1) = 3	4.5	7.5				
					28, 20			and the second s		Managaria (Managaria Angaria)
			1472 =			for many the second section of the section of the second section of the section of the second section of the s		aga-aga-aga-aka-aka-aka-aka-aka-aka-aka-		~
		Part of the second			36 34	34				epopularin mandana vasalin parada a a <u>nada ana</u>
	1	1650			, ,			1110	7.0	
	25 Apr		35.5		21.65	28.2		14.8		***
		P 8	?5	84	21.8	24.7	56.1	18.3	35.9	*
		R 8	36.5	90	21.3	27	63.6	19.2	40.5	
			11.5	86	22.25	25	60.2	20	34	
}	27 Apr	1500 5 8	4.5	99	22.5	24.5	71	19	44,3	
	1		6.3 1	00	21.9	27.1	73.7	23.3	46.7	
		j			22.85		69.2			-
		P 8	4 9	3	23	27	65.4	185	43	



	GAZO.	HNHR
	1470 = WMV/M LG/RW(N) = K+R but	
	1471 = R. DB LP = no paint 1473 = R M	B-Y(N) = black
	1472: 0 LB-BP = red butt K.0 M	
		1 11 /
20 May	1615 Checked Walt new hole here. Only /	47/7
22 May	1600 Watched for nestiness - nothing @ 15 1700 Hello'd holes - nothing	min)
	1700 Hello'd holes - nothing	
28 May	0900 Hello'd holes - nothing	
2 Jun	1515 Helloid holes - haby in the knot slay hole	He
	Flushed - 1 -t bands A/DB	- MOW WAY
rages and their animalisms, it resides to the control of the harmonic animalisms.	1515 Helloid holes - baby in the knot play hole Flushed - I got bands R.LB/RON. Umm doesn't he match up? Because he Hew to another	- kid
45.	1000 / Fearl 11/1 / by the	
9 79n	,000 5 Fresh eggs. Hole was a bitch to	saw open.
	1615 Hello hole - no one home. Damn, I hope they d	n7 abdn
	1450 Good! Bird in hole (adult).	2 /
15 Jun	0615 Damn! RL=10.05, LL=8.2, RW=7.75, LW=9 0615 13.4 11.2 10.5 12.8 5.55	7.35 15:5.35
16 Jun	0615 13.4 11.2 10.5 12.8 5.55	, 7
17 Jun	0645 MM 14.1 13.8 16.3 6.05	
18Jun	0645 17.2 14.1 13.8 16.3 6.05 0635 $21.7(10.85)$, $18.9(9.91)$, $18.2(10.1)$, $20.65(9.1)$	7.78
19 Jun	0615 25.55 (11.8), 23 (11.15), 20,95 (11.2), 25.6 (10.05)	8.95
	0625 30.5(12.95), 26.2(12.05), 24.4(12.1), 28.9(11.4),	5
	0700 41.4 (14.25), 34.1 (13.9), 32.55 (14.1), 37.55 (13.3),	
	0615 50 (15.85), 42.8 (15.6), 39.45 (15.45), 45 (14.65),	
	G 50.4 16.9 5.9 - 3 3.	2
	B 50.1 16.65 4 2.3 3	
	0 57.9 17.15 9.5 5.4 8	.1
	P 55.8 15.95 7.6 5.2 6.	7
	- 14.5 12.1	



			A20						HN	HR
	28 Jun	0711 G	56.4	37	17.8	11.8	5 12	.3 6.8	9.5	
		В				- 11			9.1	
		0	65.4			15.3			14.5	
-		P	60.5	41	17.25	15.		7.1	12.3	
han hakan dari dan sa sa		+	15.1		12.95					
	30 Jun	073! P	70.4	50,5	17.9	19	24.2	_ 11	18	
		B	67.9	4.5	19.05	16.5	19.5	10	16.5	
Specification of the second		0	70,5	55	19.15	21.3	28:3	13	21.5	1
		G	64	48	18.6	17	21.6	9.8	16.5	
		-	15,1		(inj)	show	ldive bro	ught my	camera	
	1 July	072	73.8	61.5	19.4	26	33.6	12.5	25	brought
	,	G	68.8	53.5	19.02	19.5	26.9	12.4	20	runt
		B	70.2	51	19.3	17.3	24.9	12	20	90110
		P	75.1	57	18.4	21.7	29.6	12	21.9	shit
			76.4			24		15.5	28.2	
	(LG	69.5	64	19.95	24.7	38.2	17	26.5	
		0	76.8	72	20.3	28,2	44.3	17.5	32	
						24		17	27	
	5 July	6820	71.8	75.5	20.75	26.3	49.6	18.5	33.7	1642
						30		21.7	38.2	1643
		13	76.5	75	21	26.1	46.9	18	33.5	1644
		P 0800	77	77.5	19.6	25.5	51	17.2	34.4	1645
	7 July			88	20.25	25.5	61	17	40.3	
	54,	W	79.5	85.5	2155	26.5	57.5	18.5	40.4	- va
	Q	NO	81	93	21.5	29	66	22.5	44	
	ż	KPK	77	86	21.1	26	60.5	19	40	man to



	GAZO HNHR
9 July	PM 81.5 96.5 21.45 225 70 16 46
	MN 80 95.5 22.4 27 68.2 19.5 46.8
	KPK 74.5 96.5 21.95 25.7 703 21 45.5
	77 103 22.3 26 75 18 50.5
10 Dec	Acorn Count: 1º tree: 3100
	saw: BW/M 81 886 nest: 850
	1415, 1473, stump: 260
	1642, 1644m downhill snag: 220
	88anest: 150
	5 w tree : 500
	5070
/	

,

	1CD	11 N/1/ R
	CVGR	HNHR
30 Mar	1100 2 birds to 876 bole within a couple	minutes
Dag 07	1 C-+ 6446	
1 Apr	1500 N. Popkin saw 837 (0-W/W) 1540 4 warm opaque eggs in 876 kole! 1400 1:24.9 × 18.95, 2:24.2 × 19.55, 3:25.65	-
1	1540 4 warm opaque eggs in 87 b hole!	
3 Apr	1400 1:24.9 × 18.95 2:24.2 × 19.55 3:25.65	5 × 19.25
ļ	4:25.15 × 19.25	
5 Apr	0730 Covered hole-heard no kids (didn't actually a	heck eggs)
6 Apr	1130 RL=4.7 LL=4.2 Eggs 2+3 not ke	atched
7 Apr	1130 RL=4.7, LL=4.2 Eggs 2+3 not ke 1630 10.2 8.66 6.25 5.1	
8 Apr	1615 13.3 11.5 8.8 8.2	5
1.	1615 16.6 14.5 12.9 12.	
10 Apr		1.(B)
(1615 25.5 236 196 21	
12 Apr	41.4	
13 Apr	79	
,	1700 37.5 (13.0) 37.5 (m) 32.7 (17.8) 32	
15 Apr	7 7	
17 Apr		
18 Apr	1 50 9	8.8 (14.2)
/	1600 W+ Bill 1°5 1° T5 T Chor-	
)	B 57.8 16.05 8.4 - 4.3	
	R 65.4 16.6 12.5 7.2 11.1	
	Y 63.1 17 12.3 7.8	The second section of the second section of the second section of the second section s
	5 62.9 17.3 7.1 4 6.6	
22 An	1550 5 73.8 18.8 15 8.8 12.5	
22.7		
	B 68.4 17.5 15.8 9 10 -> 200	1º big!
	Y 74. 2 17.9 18.5 22 9 15.5	-

what do sher 7 melaner pines do?

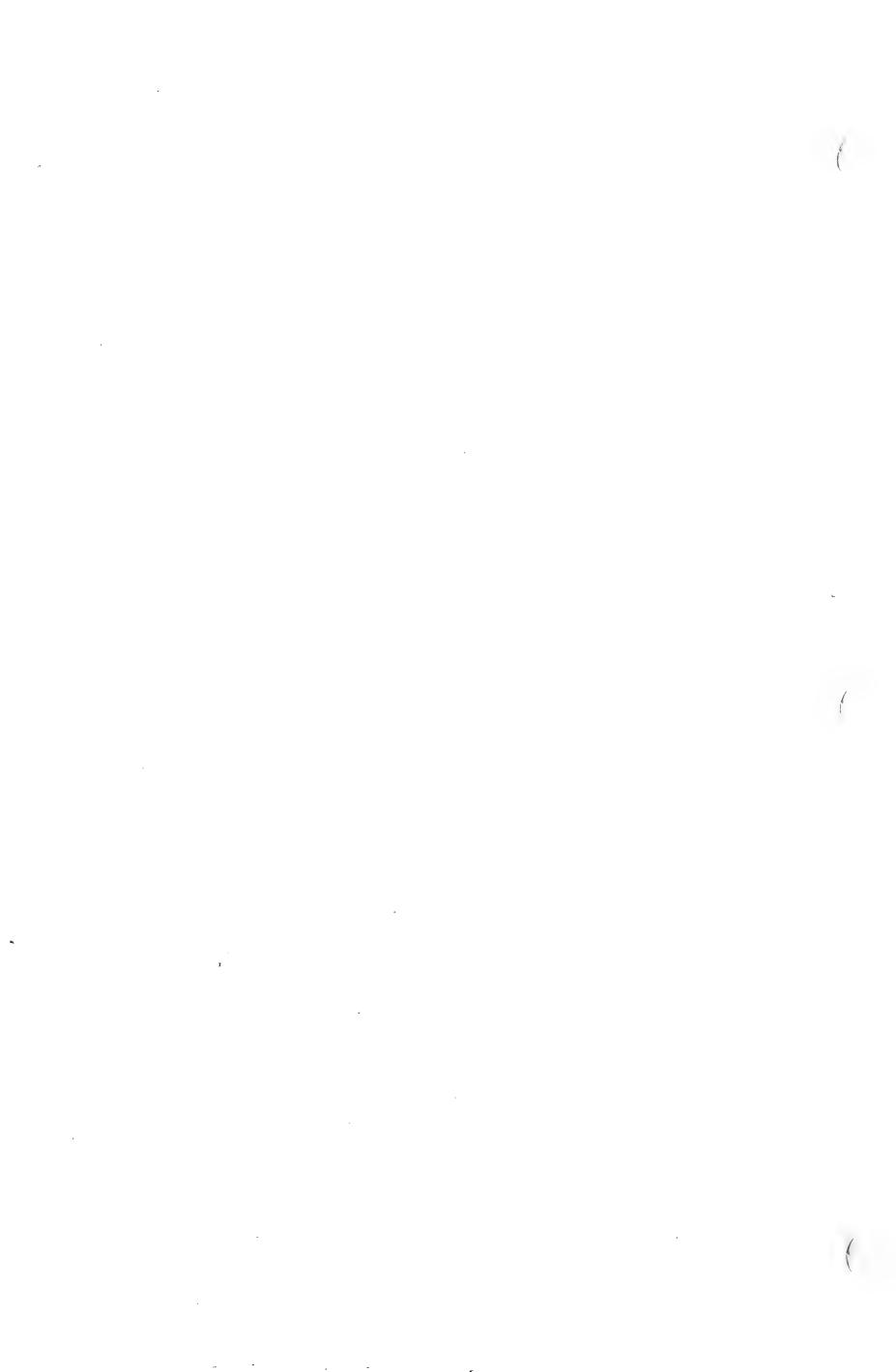
5

Dr. July

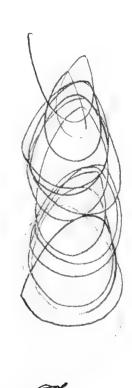
	CUGR							HNHR	
24 Apr	1530	wt	Chor	Bibl	lsh	E	TS	7	
	B -	52		18.4	21.7	25.9	10	16	
	Ye	6	0 1	9.4	24 3	432.5	12.5	22.5	- Page -
	Rr	6	0 1	8.3	25	34	14.5	26	The Edd Martin Toward Supplement Control of the Con
	5 l	5	0	19.4	20.5	24.5	11	20	
26 Apr	1430(R)	86 7.	Z	19.1	24.1	45.4	19.2	33.3	Annual Manager
	5 8	8.8 6	2 2	0.55	30	35.7	14	25.3	
	B 7	7.5 6.	3 1	9.3	25.6	36.5	13.2	24	3
	Y 8	7 71	70	.5	295	43.8	16.5	29	blood
28 Apr	1500 8	6 82	20.2	. 25	9 5	8.2	24.2 3	39.2	And the second distribution is a second constant of the second se
alaharangan ang salah sa	B 79.			74.4				8.7	2
	5 91.	4 74	21.4	29	47.	4 2	0 3.	3	3
enantana dikelah di Salah dengan kelambah enan enan kuata dikelah dikela dalam dikelah dikelah dikelah dikelah	Y 88	82	21.2	25	54.	6 19	3 35.	4	4
programmy formation application of the programmy formation and the contractions of the contraction of the co	R= 14	79:5	1.5,51.5	51.5	anthemphade alles hallade three-rises for the statements are	erris allidaresado ha del astronomo del el "Shado homos e substituidades arta en che	to the section of the	M. Ving-Halladian ()	
		80: 4		43		B	kati riqilik karanamaranan krasi kari kari karinan daranan daribi sali karanan diladir.		
	up and	81: 4				N BP			and the same of th
A	Y = 14	82: "	18.5,48	1,48.5					
30 Apr	(87					34	. 8	
•		.5 97					21 41		
							10 4		,
	5 97	2 88	22,4	1 25	58.	5 2	20 3	9.5 butt	<u></u>
20 May	X 88							gree	
,	R 85.3	3 104	22	23.7	78	18.5	54	yello	w 32.
	5 89			24.5	and the state of t			pin	
	B 79.3	97 BWN11	22.6	24.5	69.2	18.5	181M	blue	34
					1481 = 5			= pink	- Con-
	1480 : B =	R.La	RON : 1	lue	1487:	Y Ma	LG Y	= green	

-		,	4
			(
			- (

,		CVGR				H	NHR		
	17 May	1400 Bird to 8	7 b kole	Peep. 2 egg	5 hut	they've	deepenel		
		it and I can'	treach	Gapher sna	te stuc	k in a	e Hing		
		1 released it							
	19 May	1430 4 eggs	reach	2995					
	21 May	1015 5 eggs -	Another	big gopher sna	ke caugh	t in nett	ing.		
	/	1015 5 eggs - Another big gopher snake caught in netting. Theory - later nests should have move entire clutch							
		1055 but less	brood	reduction.	A trade	off.			
-	30 May	Jane reports	Feeding	this afternoon		7 - 10-10-10-10-10-10-10-10-10-10-10-10-10-1			
	31 May	0710 RL= 4.6	, LL=	3.55 RW=	5.05 1	LW=5.2	yesterda,		
	1 Jun	0610 7.7	6.22	8.35	7.58	3.6 (Fr	m last laid egg		
and the second s	2 Jun	0615 11.85	8.6	13.0	10.5	3.9(-)			
	4 Jun	0615 15	14.6 , 2	0(9), 15.9		7.65			
	6 Jun	0640 24.3(11.4)) Y=19.81	11.25) 25.6 (11.	2), 18(11)	-0, 9.	1		
rost!	8 Jun	0625 B=31.7(1	3) Y= 1	26.8 (12.7), M	: 31.2(13.1) 0=:	78.55 75		
	10 Jun	0705 41.4 (14.5	34.	5 (14.3) 44	1 (14.6)				
	12 Jun	0700 54.6	16.1	3.4 -	3.4				
		0 46.9	16.05		1.5				
		B 51.5	15.8	2.3	2.3				
		Y 43.8	15.8		1.8				
	14 Jun	0900 68	17.4	7.8	4.5	7.5	(2		
		0 63.5	17.3	4.8	4	5	(2		
		Y 61	17.2	4 -	5.2				
		M 72	17.5	10.4 -	8,6				
<u> </u>	16 Jun		18.7		5.2	10			
		o 69 \$ 76 41.5	18.6		5	10.6	2		
		M 38.8 44							



_			IGR						HNH	R
	18 Jun	051 Y	5 66.4	43	19.5	15.3	17.6	10.3	16.4	
		DB		54			24		18.8	
		m	79.3	56.5	19.8	21.3	28.8	15	22.5	
		0	69.6	47.5	19.8	17.9	20.3	11	17.3	
	20 Jun						28.5		24	
		0	78.9	60	21	22.5	31.5	13.5	24.5	(2.5)
		M	85.6	70	21.15	25	415	18.3	30	
******************		B	87	66.5	21.2	21	37	14.2	26,9	
	22 Jun	Y	79.4	66	21.45	23.7	39.5	16	31	
		B	86.5	77	21.8	27.5	48.5	18	34	
		0	82	70	21.7	24.2	42.9	165	32	
				80	22.15	30	52.5	21.5	36.6	
	24 Jun	0650 BWN	848	88.5	22.8	25.5	60	20	40	
		GBY	77.8	77	22.25	27	50.4	20	37.3	
·		PKN	78	80	22.85	24.3	53.3	17.5	38.5	
Promote Challenbelgerejts of		0BM	84.6	91	22.8	24.5	63	17	42.6	
	26 Jan	PKN	81.3	93	23.45	21.3	64	17.5	45.7	
		OBM	84.4	101	23.41	23.5	73	18.5	49.1	
·····		BWM	90	99	23.5	27	72	20	47.5	bald
		GBY	79.8	97	23.4	27	61.7	24	43.5	
	10 Sept	0813	5: 1	1482	is 9					
	16 Nov	103	0: 41	3 K/Y	(1613	is I				
	6 Dec				view from	W + bas	re side =	3467	166	00
`		(es	+ 4000)			Eview		2450		
)										, and





	MURE
30 Mar	1105 Starling Flushed From near Cyndy hole (was seen sitting
	1105 Starling Flushed From near Gindy hole (was seen sitting near it earlier) ACW Flush near 36 b hole
Dec 87	Acorn Count: 7500
	0840 - 0905 Watched Must From (V pond, Saw birds go to
	back of troe thrice Checked Nest Out on the end of the
	limb that the 86 a nest into as/ is attacked to Bees must go.
	1500 (ut open kole - 8 eggs!
	1500 Cut open kole - 8 eggs! Experimental Group: Walt removed B3 Wo incus
8 Apr	1630 2 hatched each 3.9 q
9 Apr	1640 RL = 7.05 LL = 7.0 RW = 6.15 LW = 6.1 B = 4.8 I accidently the head of 1 putting him back in. 1640 RL = 9.75 LL = 9.1 RW = 6.9 LW = 7.4 B = 7.2 n = 4.2 There
	I accidently with the head of I putting him back in.
10 Apr	1640 RLI 9.75 LL= 9.1 RW= 6.9 LW= 7.4 B= 7.2 n=4.2 There
	was a dead hatchling (still attached to egg) wt: 3.0g. It had
	been pecked on the L toot + L wing, with multiple pecks
	at the back of the head. (1.6)
ll Apr	1640 13.2 13.4 10.9 12.1 10.6 3.6
12 Apr	1640 16.25 15.4 13.9 15 14.9 5.35
13 Apr	1630 18.9 (N) 15.5 (R) 16.9 (G) 16.1 (B) 4.55
4 15 Apr	1630 23.2 (10.3) 20.8 (10.6) - 21 (10.9) 20.3 (9.5)
,	1746 29.1 (115) 25.7 (12.25) 28.2 (12.3) 28.9 (10.9)
18 Apr	1630 30 (11.9) 29.6 (12.8) 30.7 (12.95) 30.4 (11.4)
20 Apr	1640 36.2(13.2) 34(14.2) 38.7(14.4) 38.3 (12.8)
	1630 46.3 (14.6) 44.4 (15.45) 46.2 (15.6) 48.3 (14.35)
25 Apr	1600 585(15.9) 4.4(1.8) 56(16.8) 7.8 60.8 (17.5) 8.1 (3.1) 60 (15.65) 4.8
27 Apr	76 70.3 41 18.75 15.1 16.1 7.7 11.3
•	B) 69.9 36 17.1 10.6 - 3.3 5.2 3 KPW 68.1 37 17.05 12 - 6.1 9.5 2
	67 38 18.1 14.4 14.8 9.7 13.2

	MURE	HNHR
29 Apr	1810	
l	N 74.2 48 17.65 19 21 10 16.3	3
	- 74.8 51 19.15 20 26.2 12.5 20.2	L
	Yy 73.9 53 20 20 26.6 11.4 18	4
	B6 75.1 48 17.8 16.6 21.9 6.7 11.5	- (3)
1 May	1600 75 58 18.7 24 31.8 12.6 22.0	4 3
/	B 76 57 18.8 23 31.4 11.4 18.	5 36
	- 73.5 63 20 28.5 36.9 14.2 Z>.	2 4
	6 71.3 63 20.4 24 38 14.8 24.	80
49.5	BG = 45,45	
inian		between)
1495	N = 47, 46 (44,- 1st tube had wierd middle laye	γ)
1436	- = 42, 26/65 (40 - had small middle layer)	
	1483 = Yg = MV DB/R Pink	
	1484 = B = w DB. LB = Green has black on Forehea	ad .
mend of a control to the control of the state of the stat		
	1485 = N = BP-W KP(N) = Yellow has lots of black on forehead (red is a patch	(a) K
	1486 = - = DB · Y(N) M = Blue	
	1400	
5 May	1400 B 79.7 81 20.6 26 53.8 16.5 31.4	Pa-:-
	- 79.7 86 21.5 28.3 59 18.4 39.5	Panted:
	Yg 79.1 85 22.4 24.7 58.5 16 37.8	butte .
	N 77.5 82 20.1 29.3 54.4 18 36	
19 May	1700 Jane reports adults playing in 86 b hole 0930 Put up new string or check hole - 2 eggs (#runt (?)]	N
21 May	0930 Put up new string or check hote - 2 eggs (#	2 15
/	runt (?)]	7:
22 May	1515 Numbered oggs 3 (normal) and 4 (another squat like 2	2) ~ 14
• 1		

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	Murf	HNHR
23 May	1430 #ed eggs 5 r6 (normal r short)	
4 Jun	0710 RL= 03.85, LL=4.2. 1 found shells 1+	3 below
	the nest, # 3 was Freshly hatched. As all the bi	
	were the same size, RL = egg 3, LL = egg 1	. Fag #6
	is pipping. Egg 7 not yet pipped. All 4 small c	iggs were
	thrown out of the nest! Was this because	they were
	so small? Or because they belonged to the dead	4 and
	thus were tair game? Can birds identity their	
	I don't think I noticed this egg size disparity	in the
	1st nest. Maybe the dead 4 was stressed out	
	at the onset of this nest (hence small eggs	and '
	death upon captivity) Does this address bird lating clutch size in accordance w group si	s maniph -
	lating clutch size in accordance w group 51	ze/weather.
6 Jan	0710 RL = 9.4, LL = 8.15, RW = 5.65. Pu	
	From egg #7 (ie last laid + hatched) He hatched	
	was too now, healthy. Egg # 6 (was pipping) hat	ched died
7 1	and was removed by binds (this is what I assume	
7 Jun	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1
8 Jun	explains the one of one disconserver of tries predation	1-
	explains the one by one disappearance at ticls. It mouse was the culprit, would this explain the	
	small eggs (ie the ones it could carry?) Any	,
	think this nips in the bud the great 7 egg	
	hypothesis. By the by this nest has been mite	ridden albua.
23 Jun	0900-0815 Spied From afar. No sign of nestiness	/was
	hypothesis. By the by this nest has been mite ogoo-0815 Spied From afar. No sign of nestiness watching from CVZ when Murt jur 1485 show	wed up. See.
	CV2 notes.	



Murt HNHR 27 Jan 1800 Watered 88 b hole/tree for 20 min then 88a hole/ tree 20 min, then 87 Cyrd, hole 15 min - no interest anywhere. I then hellod + I think a bird Tusked From the 38 a hole but o course it coulsie 29 Jun 0935 - 0950 Watched 88 a hole + environs - nothing. - she 85 tree, but Thew away who going in i'c other real hints. Therwards I helioci libes - nada 1000 Ciected store it high up on the know summit Climbed and hand covered the one hole up here (no kids) but didn't have peeper. Saw PID(+1D) 967, 1486. 8 Jly 1845 - 1920 Helo's holes thon spipa trom distance - mada. 9 Aug 1015.1045 Sat under tree + census: 967, 1486 1486 may be a 4 check cas record to see if this was the pary w 9 plumage I saw a bird with 4-ish slumage that had a messy Tore head etc jut 1 didn't see its legs. So its either a nest missed or just a messy jav (which these were 64001 15 Dec Acorn Count: 88a nest tree: 5400 (saw 917 and a) 85 4 "

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	CUL HNHR
30 Mar	1130 Bird at syc slit-hole
	Acorn Count: 4500
	1115 You can see down the hole - its ready to go, but how
	to cont : t open. Its at least 6" thick From all sides.
8 Apr	1700 4 eggs - couldn't reach 'em
9 Apr	0915 Widened the hole & little enough to get my
	hand thru the narrows, but then my tovearm stuck
	there before my hands reached the eggs. There are
	not 4, but 9 eggs! By using the mirror, you can
	see the ones I missed yesterday. They are opaque.
	Even though It widens out, I don't think I could out.
10 Apr	1000 Cut new door, but I Fucked up and punctured 2 of the 1
	eggs. Look, no one is more upset about this than law - this
	was going to be great broad reduction. I'm punishing myself.
	Both eggs were removed - both testile - incub @ 7 days.
	Well, we can still get hatchability data (2+x) and number
	fledged (there will still be broad reduction) 1440 Well shit, they've hatched - and it looks like they hatched on 11 Apr - or started then - I can only assume
13 Apr	1440 Well shit, they've hatched - and it looks like they
	hatched on 11 Apr - or started then - I can only assume
	that the 2 eggs I broke were runts (I actually only
	opened 1 of them - I need to check the other.) 50 9
	laid, 9 hatched (a record?) Very synchronous tou. RL=7.6
	LL=19.0 RW=9.35 LW=7.8 B=12.7 BL=9.4 F=4.0
14 Apr	1515 RL=10.3 LL=11.3 RW=12.4 LW=9.8 B=16.5 BL=11.6 1515 12.6 14.25 14.0 11.9 18.1 by self
15 Apr	15 15 12.6 14.2(5) 14.0 11.9 18.1 10.5
4	BL was apart from the others when lopened but after wt I lumped all. 1600 17.5 (9.05): B/19(8.2) G/-/16(8.7)0/22(10.8) W/11 butt cut
17 Apr	1600 17.5 (9.05) = B/19 (8.2) G/-/16 (8.7) 0/22 (10.8) W/11 butt cut

actual sions view down hole

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	CVI	HNHR
18 Apr	1430 &= 20.8 (8.8) /0 = 17.3 (9.5) w= 23.3 (11	.4) (B = 20.1(9.8)
20 Apr		
	1400 32.4 (11.85) 23.8 (11.9) 31.2 (13.8)	30 (12.45)
25 Apr		
27 Apr	1615 519(14.75) 38.7 (14.3) 47.8(16.05)	50.9 (15.2)
29 Apr	1645 59.4 (15.7) 3.7 / 47 (15.3) / 59 (16.75) 5.8 = 13	53.4 (17.2) 7 (2.7)
3 May	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
/	B 71.9 44 18.3 17.7 19.5 8	12.3 (2)
	G 73 40.5 17.6 15 17 6.8	8 11
	W 68.5 45 18.8 16 20.5 10.	**
9 May	1300 GM 81 76 20 26.2 49.6 16	19.5 pink
5	NO 78.5 61 19.3 25 35.5 14	20.5 green)
Ŝ	MYR 82.5 76.5 20.8 26 50.5 17.5	
W	RWB 80.8 247 21.2 28 51 17	33.3 b/he 499
11 May	1497 80.3 88 21.7 25 62 19	38.3
/	1498 81.6 88 20.4 24 61.4 18.5	No.
	1499 83 86 21.95 23.3 61 14.5	Apr.
	1496 80 72.5 20.2 25.5 46.5 12.	
23 May	1500 Bird Hushed from plug bottom role in	granary
28 May	1500 Bird Flushed from plug bottom trole in the checked bole w peoper - no nest, nor	will there be one
/	in this hole - the plug isn't complete	so there's a
	hole in the bottom of the hole	
2 Jun	1605 9 in new hole on E side of	
3 Jun	0700 NOID bird in same hole (no one is	n at 0630)
4 Jun	1330 Juv O. 6/M. Checked hale - no es	195.
8 Jun	0730 No one in hole	
	0840 Bird in hole, another came - replaced it	(untiling trom dist)

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	CVI
(8 Jun)	1600 climbed hole - 4 Frosh eggs! But cutting is a chove.
•	6" thick live sycamore. I make less than 2 of the
	cuts and that takes @ 1 hr. I blow out as much
	sawdust as I can before coming down but 2 of the
	eggs are still covered) Sorry, but I'd be up there Zhrs.
9 Jun	15 30 They didn't seem to mind - they laid 2 more eggs.
	I Finished the cut and marked all 6 eggs (2 seemed
	Fresher so I marked them as such. There was a runt
	egg (the 6th). I removed it - things are getting tight in
	there and I want no wasted space. (when was it laid)
14 Jun	0930 Oh shit. I candled the runt egg and saw no yolk, so
	I blew out the contents - and found a yolk (this was on)
	13 Jun) On 14 Jun I climb hole and see they didn't
	lay more eggs. Since they had 9 the first nest
	I Figured they hay 8 in this \$50, Final clutch = 6.
	However) removed small egg: 5 and now I see that
	they removed an egg, so elutch is now 4.
20 Jun	0835 RL=4.3
	0900 RL= 6.1, LL= 4.6, RW= 4.4, LW= 4.6
225m	6045 78.558 2000 4.78 6.25
22 Jun	0745 8.58 6.22 4.78 6.25 What's asim
23 Jun	0745 8.58 6.22 4.78 6.25 what's going - 0735 9.6 7.38 5.3 7.8 on have?
	0730 11 9.5 4.7 9.55
26 Jun	0835 17.2 (9.65), 14.2 90ne 13.8
28 Jun	0815 23 (11.5)=0, 21.9 (10.85)=B, 19.6 (10.6)=W
30 Jnn	0820 29 (12.9) 28.1 (12.3) 24.2 (12)
2 Jul	0745 37.3(14.15) 36.6(14.1) 31.7(12.3)

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	U 1/17	
	EVL	v
4 July	0725 B=47.2 (15.45), w=42.4 (14.9), 0=47.3 (15.5) 3.5 (2) 3	-
6 July	0740 8 56,3 (16.1) 5.2 2.8 5.4	Put
	W 50.55 15.8 5.2 2.8 4	-
	058 16.2 9.1 4.5 7	
	There's a tamily of Cooper's hawks here (: bye babes at CUER,	
	MURF, CVI) I heard a bird scream (I don't think tow,	
	but could have been and soon after saw a Coopers	'
	hawk leaving the CVI granary wa large ish bird	
	is to he alogs a taken source bound boule	
	begging, up the hill from the curve Gazolo.	
8 July	0645 63 36.5 17.5 12.3 12.6 10.7	
	ō 63 43 (17.15) 17.3 17.5 10 13.3)
	w 56.3 35.5 ((16)) 12 - 4.5 8.7	L:
10 July	B 70.9 48.5 18.55 18.9 20.7 11.5 18 (2)	
/	w 61.9 48 (17.1) 19.7 21 9 14.6	
	0 67.4 55 (18) 23.5 28 11.3 20.1	
12 July	0 66.9 66 19.64 24.5 40 15 27	
156	B 67 59.5 19.46 23 32 12.7 24.3 (2.5)	,^^
5 5	W 62 59.6 (-) 24 32.1 11.4 21	
14 July	0 69 78.5 20.5 27.6 51.65 17 32.6 PKW	
35	W 58.8 68.5 19.7 26.8 41.5 12.5 26.6 NW	
Ç	B 66.5 70 20.3 26 43.4 14.2 30.8 MKG	
16 July	NW 65 79 (20) 22.8 51.3 17.1 32	***
, /	MKG 67.4 80 20.95 26.7 52.3 18.6 36.6	
1654	PKW 68 89 20.85 22.5 62 18.5 37.8	
18 July	NW 69.9 89 21.05 25 61.8 17.5 38.4 P	
1	MKG 65.2 89.5 22 24.5 62.9 16.5 42.5 4 2.5	
	61.1 97 (22.2) 23.5 71 19.5 43 G	



	CVI
9 Ang	0730-1006 Saw 945, 1170, 1090, 1499, 1654, 1655
J	1666. These all + 1D, and repeatedly. I never
	saw 1089 and don't think he (or 1496, 97, 798) is
	here. J 1499 is a 4! 1655 > 1656, 1654 >>
	1655. J1499 > 1656. (Hier is 1654 > 55 > 56 - can't
	test for transitivity yet, but)
10 Sept	0700-0800 Census: +10: 945, 1089, 1170, 1090, 1499,
	1654, 1655, 1656.
	1445 8 1
15 Dec	Acorn Count: 1500 + 1600 + 1000 = 4100



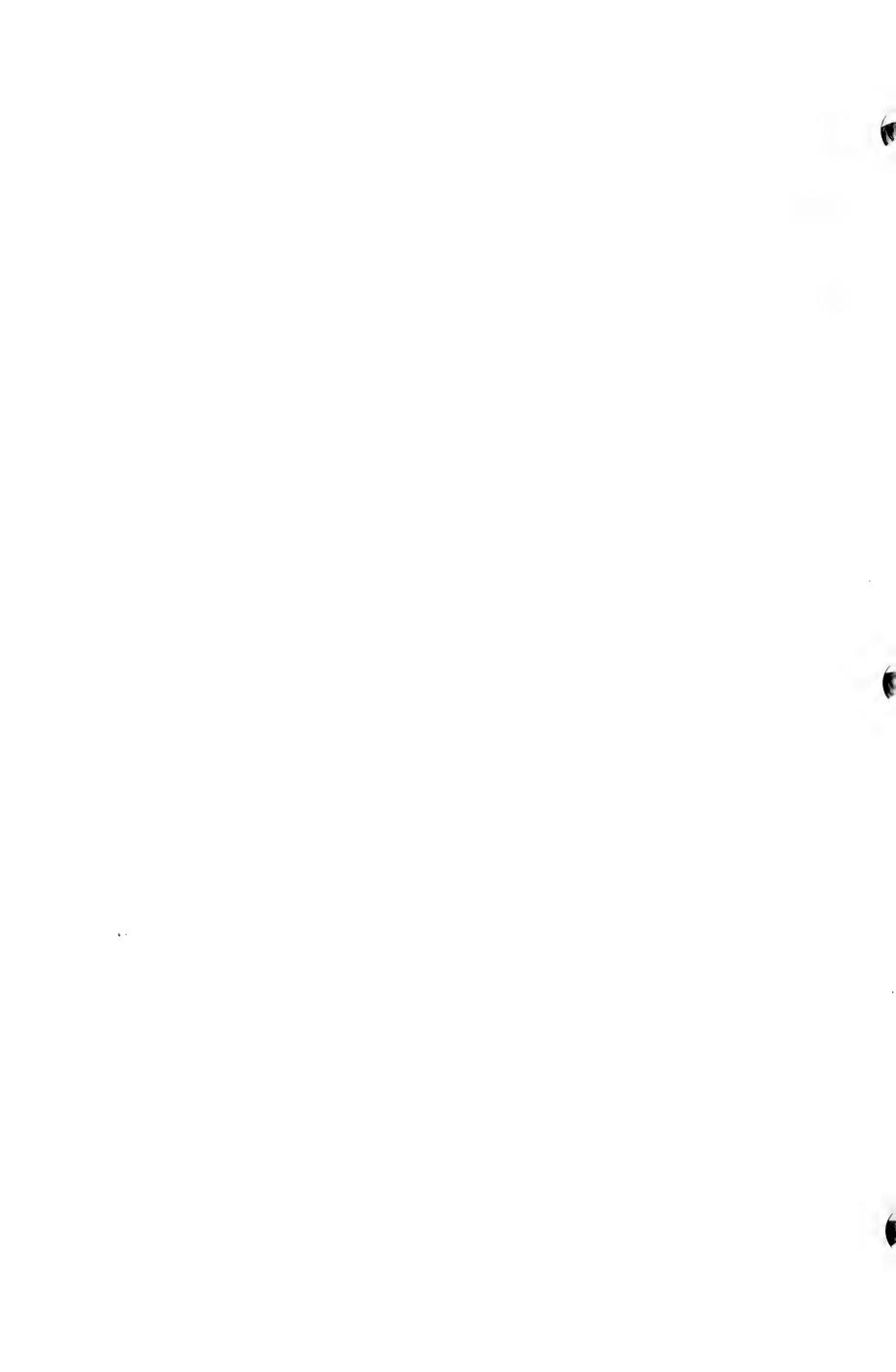
	Mill
30 Mar	1135 2 birds Flushed from 5 side of tree - 1 think
	trom a new hole in an apright snag coming out of a big 5 pointing horiz limb. Hole Faces w.
Dec 87	Moorn Count: 200
9 Apr	1200 Bird in down tacing hole usa tork in limb that
	points toward pond. I thought I heard pecking before the bird stuck its head out.
	before the bird stuck its head out.
10 Apr	1043,0900 No one in vole when I cruised by.
11 Apr	1500 Bird Flashed From hole (9 Ap hole)
	1720 Bird in hole
	1500 Cut open hole (rotten, wierd a biter), but can barely touch
	the 4 semi-Freshish eggs.
26 Apr	pm I flushed the adult out and listened - but heard no kids
29 Apr	1600 Hatched! 3 kids + 1 pipping. I get the hole so I can
	get my hand in RL = 5.7 LL = 7.0 RW = 4.2
1 May	1615 Failed. It seems the inner door in this rotten hole collapsed
	1600 Hatched! 3 kids + 1 pipping. I get the hole so I can get my hand in RL = 5.7 LL = 7.0 RW = 4.2 1615 Failed. It seems the inner door in this rotten hole collapsed on 29 apr. I retrieved 2 dead kids and a semi smashed
	pipping egg. Dann.
13 May	10900 Bird in 30 Mar hole
/	1300 Climb - bird in trole, but no eggs
15 May	1220 Bird in hole
17 May	1415
19 May	1500 Repad-eggs (24) Very rotten link-paper thin-started:
/	saving w knife, decided I need to return w glue + tape
26 May	1500 Repadeggs (24) Very votten limb - paper thin - started: saving w Knite, decided I need to return w gluer tape 0840 Finished door (no glue tape used, but fragile) 5 opaque eggs. 1540 Still not hatched - and not good for photo (ladder?) 1430 RL = 5.7, LL = 5.0, + 3 eggs
23 May	1540 Still not hatched - and not good for photo (ladder?)
25 May	1430 RL = 5.7, LL=5.0 + 3 eggs
1	, 00

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0	Mill HNHR
26 May	0815 RL= 7.3 LL= 5.95 RW: 4.9 LW= 5.15 egg pip?
	0650 10.4 8.55 4.4 6.7 4.6
/	0615 14.3 11.7 3.9 9.5 4.05
	0640 21(9.1)=(G), 16.9=(Y), LW=11.2
31 May	0635 24.5(10) 19.5(10.5) 14.8
,	0645 34.3(11.6) 26.1(12.2) 19.1(10.1)
	0645 40.7 (12.45) 30.5 (12.8) 21.4 (10.55)
4 :	0700 48.2 (13.9) 34.2 (14.1) 26.1 (11.9)
7 Jun	0630 56(15) 2.9(3) 41.45 (15.4) 24.8 (13.05)
10 Jun	0745 (16.15) 9.8(5.5) 9.5 54 (16.65) 44 (25) 200 29.5 (14.4)
12 Jun	0740 28.1 15.1
	Y 57.9 17.55 9.4 6.2 8
	La 72 43 16.85 17 18.3 11.2 16.9
14 Jun	0820
	Y 66.4 41.5 18.25 17.25 - 13.3 15
	45 79 56 17.6 21 29 14.2 23.5
16 Jun	- 31 23 16.3 5.7 6.5 4.2 5.5
ock)	Y 68.1 52.5 19.3 20 27.1 13.7 23
(2)	G 78.3 67.5 18.1 24.4 40.6 16.2 31.4
17 Jun	2000 Runt is dead (30 g) 6.5(7.9) Set ambush
	2000 Runt is dead (30 g) 6.5 (7.9) Set ambush
18 Jun	0340 Damn String broke (monotilement) (Set again pm)
18 Jun	0340 Damn. String broke (monofilement) (Set again pm) No one went in . Its very hot 2-nite. Will try again 0845 79.5 845 19.15 24.5 56.1 20.5 415
1º1 Dyn	0845 14.5 843 14.15 24.5 56.1 20.3 413 V 711 5 195 20 1 24 1 20 2 20 20 20 20 20 20 20 20 20 20 20 2
FAI	Y 74.5 69.5 20.1 24.5 428 20.2 33.8 mil
20Jnk	Del ambren last night no one went in. Damn
Duly	Set ambush last night -no one went in. Damn 0900-1000 Census: PID: 1261, 5270, 1599. Saw 1599 repeatedly only seems to be I jur present.
	the state of the s

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	M. Formicivorus
	Mill HNHR
6 Dec	1500 Saw 9 1261 "Set ambush Only one bird came to the tree (made alot of noise) - didn't go in. Acorn Count: 400 . Saw 5270
	came to the tree (made alot of noise) - didn't go in.
15 Dec	Acorn Count: 400. Sav 5220
	-
	, the state of the
	-
	-



	CV2 Annex	HNHR
	0930 Saw 3 birds, 2 were 37 - 1 of these w	nales
	seemed to have of, others seemed NOBA (?	
Dec 87	Acorn Count: 11000	
Apr	1600 Way to go Jane! She found the nest! Way o	nt on
1	1600 Way to go Jane! She found the nest! Way of the limb that points to the gran Not convenion	
2 Apr	1015 Opened nest (thin) 3 Fresh eggs	
5 Apr?	1015 Opened nest (thin) 3 Fresh eggs Sent Jane For incub watch (to det whether 28 B	or H) but,
	alas, no one showed up. Predated?	
9 Apr	1100 Check hole - empty Dann, Back to:	square!.
II Apr	1515 Found nest! W Facing hole up canyon	
12 Apr	1415 Cut open tole - 6 Fresh eggs - not too war	sind in tole on a recipal
1	1630 RL = 7.9 LL = 5.6 RW = 9.3 LW = 6.75	
	The babies all looked "new" (pink, not white - no ribs sho	
	I'll wager they all hatched this am (PW with jump on	'em)
22 Apr	1715 11.2 7.6 13.4 9.5	V
24 Apr	1630 RL= 19.5 (9] = R LL= 11.3 RW = 20.9 (10.2) = B	w=18,1(8,8)
	Scrub jay not marby-cute! 2 eggs still in I nest.	+2005
26 Apr	Scrub jay nest marby-cute! 2 eggs still in 1 nest. 1530 R= 27.6 (11.4) (Y= 24.8 (11) B= 29.7 (12.4) =	21.8(10.3)
28 Apr	1615 396 (1335) 36.2 (12.7) 40.5 (4.55) 30	1/12.3/ 25
30 Apr	1630 47 (15) 44 (14.5) 49.3 (1635) 37.	3 (14.2)
3 May	1800 63(17.2) 2.5 60.8(16.4) 3.8(2.2) 69.9(17.9) 6.3(3.6) 5	1.5 (15.7)
9 May	R 80.5 53 20.25 22.7 26.6 13.6 18	
/	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	LB 92.5 60 21.25 20.5 32.5 16.5 22	
	72 46 188 18.2 22.7 14.7	

whats the wing chr day wit = wing

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	CV	2 A	nnex					HNH	R
11 May	1535 LB	102	73	31.9	23	44.5	18.5	30	
/	R	87.3	66	20.95	26.6	38.3	18	25.5	
	Ā					36		25.9	
		79.4	58.5	19.45	23	33.3	15.5	23	
13 May	1500 B	99.8	83.5	22.8	28.3	55.5	15.5	36	
								33.5	
	ì						19.5		
	R	84	76.5	21.25	26	49.7	18.5	32.5	
	There	was	a big	gopher	snake	at th	e base of	f the tre	e
	besid	e the	nest	tree. He	went	into the	e hollow	the tre base r 1	
			ach hi						***
15 May	1345 LB	99	95	23.95	30	66.6	24.5	43)
	R	84.7	89.5	21.6	26	60.5	23.5	39	
	Y	89	88	20121.2	26	58.7	20	40.5	
	2	81.4	81	20.95	26	56	21	36.5	
17 May	NY	86.5	98	22.65	25	70	17.1	47.5	Y
		94	105	24.5	24	77	20	50	β
	KM	785	99	23.2	26.5	70.3	27.5	46	4
	MOY	76.5	97	22.55	25	66.5	22.5	43.5	P
2 Jun	1600	DB-	Y(N)/1	Maure	juv =	1536	Noone	in holes	
8 June	0740	Heli	6 hole	5 - no	thing			at Mest	
10 Jun	0840		11		")	Jane	saw bird in	rotten hovi	z hole
11 Jun	0900	hello	holes	find hor	riz) - 1	rope be	ita juu	at nest	hol
17 Jnn	1730	ev time hello	s tween - noth	- 11+17	,		J		blace of
19 Jun	Jane	repor	ts 137	2-13	375 a	re back	at CV2	with o	ne
	NOBA	1 9	and 3	2 NO	BA ju	ivs .	1373, 4	is 99 a.	nd
	kids	were	not	there	the	J 153	8 was	is 99 ar seen	The same of the sa
			_						



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	CV2 HNHR
(19 Jun)	1 think there was a CVZ Annex and that's the
	one we tollowed, 1372 + 1373 were seen at
	the original CVZ nest (a 3 egg: 19). 1415-1530 Spied hoping to get a 2" nest. Twice a bird flew to the "creek", I specked it dut
21 Jun	1415-1530 Spied hoping to get a 2" nest. Twice
	a bird Hew to the "creek", I specked it du
	and tound a so-so hole + watched , t
	awhile Mostly just dead here.
23 Jun	0815 Saw a banded jur RWDP by box 98 but he
	(actually, it had a 4 forhead!) didn't match anyone! Ah ha, me thinks was Must 1485 BP-w/KP(w). Also
	Ah ha me thinks was Must 1485 BP-W/KP(W). Also
	this would explain tore head
29 Jun	1000-1015 Spied on CVZ. They were hanging out in the
	granary and I saw no toways in any direction 0920-0930 Watched CV2 - nada
3 J/y	0926-0930 Watched CV2-nada
9 Jly	Roosted in a hole in a rotten limb on the downhill
71	side at the Holy Tree.
12 July	1630 checked out the hade - No good - it has no bottom.
76.6	It fell off so it's an open eylander. Rotten:
JEST	Roost watch. Went into 12 July hole. (Before this
16 1/21	at 1937 I heard an ACW get Killed.)
6 Dec	I plugged the bottom of the hole with screen
15 Dec	Acorn count: trom W: 3500 ~ [10,000]
is the	saw NOBA 8 (5319) NOBA 9 (3320), and I LB.K/o & maybe RON
	The latter bird doesn't fit in CV2 or cV2A, but it
	was sitting peacetully.

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	DARK HOLLOW HNHR
	0910 Hello'ed troles - nothing.
	1145 Bird in Fall 87 almost-nest hole.
Dec 87	Acorn Count: 2500
2 Apr	1500 Climbed or peeped-no eggs bout not a good peep. 0810-0836. Watched From W. Bird to 87 hole once
1	There are 3 birds here. They sat on a branch together
	briefly. It looked like maybe mate quarding - some following.
	briefly. It looked like maybe mate granding - some following, a little chasing. I saw a I(NOID) + 9 (MT = 1035?)
3 Apr	0830-0845 Watching From Far Knoll. Can't see any kolos
	From here, but they did seem to visit the immediate
	vicinity of both holes (87 nost + 87 Fall suspect)
3 Apr	1550 Bird in 87 hole.
4 Apr	0830 Thought I saw a bird Flush from Fall 87 hole
9 Apr	1030 Checked 87 hole (no eggs, but good shape) and
	the role below it (nothing not as good but OK)
	No one flushed from these or the tall 87 hole
10 Apr	0850 Helloid holes nothing (ditto at 1050)
11 Apr	1425-1500 Spied on trees for 2 ho no hints nothing
20 Apr	1700 Hello'd holes - nothing.
22 Apr	1430 After spying awhile , a bird goes to the 87 hole.
	Soon after l'arrive w gear and hello - nothing. As I start
	Soon after l'arrive w gear and hello - nothing. As I start putting the rope up a bird sticks its head out - so
	that was the problem they're deat 3 transfacent but
	warm eggs - numbered 1-3. 1515 3 opaque, warm eggs. That's it. Morgan reports large gepter. 1545 Not hatched yet. 1515 RL: 7.9 LL: 9.05 RW: 6.8
25 Apr	1515 3 opaque, warm eggs. That's it. Morgan reports make here
30 Apr	1545 Not hatched yet.
1 May	#1715 RL= 7.9 / LL= 8.05 RW= 6.8
/	

	DKI	t W						HNHR	
3 May			16	1/= /7:	=(R)	PW = 1	3.5		
9 May	1400	36.37	13.3)	LL= 17: 39.75(139)	368(1	3) = PW	=(R)	
11 May	1446	49 41	(15.15)	54.3 (15	5)	500 (1	46)		
13 May				-) 64(17)9(- 1	_			and Miller Miller School (1985), and a graph of the complete or
/	K	72.3	44	18.2			_	11.5	er visit tilligen i visit visit, aller deller upv. rependensen i visit i visit tilligen i v
15 May	R	66			14.5		8.5	8.5	
	K		40	17.4	13.6		7.4	11.4	
17 M.	1430					23.7			
17 May	R	71.5		17.9			8.5	15.5	
for advantage approximation the foretrodgener can subaggine expensed	K department of the second	78.5	56	19.35	24.5	28	17	18.4	-
10 41	1630	69.5	51	18.3	21	24	11.3	18.4	-
19 May	K	81	68	20.25	26	40	14.7	26.5	
	R	74	62	18.65	21.5	34.8	(1	22.2	
	1115	74.5	64	19.55	22.5	3 3.7	145	25.7	
21 May	Ř	77.2	72	19.5	25	45.1	14.5	28	
/	COLORES Y AN EXAMPLE PARTY	77.7	13	19.55 19.5 20.2	23.5	44	18	32	-
	K	82.5	78	21	28	50	16	33	aan William ka an an ahaan ahaa ka aha
23 May	1615 K	82.5	90	22.6	25	61.7	15.5	40.1	enter de l'annual
/	R	77	84.5	20.6	22.5	57.3	15	25	
		78	86	21.5	25	57	19	39.8	
25 May	1515 RON	81.9	99.5	23.0	22	70.7	15.3	46.4	Ge
/	PKM	78.5	97	22.45	23.5	67.5	22.5	46	P
	1			21.2					
4 Jun	1415	hello	hales	nothina					
8 Jun	0830	Hello	holes -	nothing .	. Saw	Pbutt:	PKM	= 1569	
17 Jun	0900	11		"	But.	1 though	ht 1	heard >	2
	adult	5 hore						,	
18 J.	Jano	renor	ts ok	cro bire	ls loro	etpaling	a care	S No.	DKHW
6 Pec	Acor	ns ; 60	0	- · · · · · · · · · · · · · · · · · · ·	NO PIE	3/00/11/10	acor v	· · · · · · · · ·	102

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	OKCO
	1000 87 nest hole door fallen out. Watched 86 For 10 min. Made
	Acorn Count: 3700
	1615 Bird in 86 hole
/	0815 Climbed - empty, but good shape
	1120 One bird left 86 hole - another went in.
10 Apr	0830 4 Fresh cool eggs (#1-4) Wno
24 Apr	0830 4 Fresh cool eggs (# 1-4) Who 0730 $W(l) = 12.9$ $O(r) = 15.6$ $B(r) = 15.1$ $M_{\nu}(e) = 16.6$ 0800 $W_{\nu} = 18.75$ $W_{\nu} = 18.75$ $W_{\nu} = 16.5$ $W_{\nu} = 16.6$
13 May	w 80.9 78 18.75 25.4 51.5 19.1 32.4 (2) B
/	0 79.5 84 19.55 28.5 57.5 22 37.2 P
	B 84.3 92.5 20.2 25.5 56.4 18 35.2 1533
	M 85.2 89 21.5 29.3 61.3 21 39.5 2.5 1534
	hello holes - watch hole - nothing
8 Jun	0750 Watched nest hole For 10 min - nothing. Noticed
	birds Flying in dir of 87 nest. (sycamore). Nest!
	In lower of high holes in main trunk (near
	broken top) B in hole. Set string. Will return
	1730 Opened hole - 5 opaque eggs.
10 Jun	0825 RL=555=455 LL=4.5 + 3 eggs
11 Jun	0825 RL=5.55 = 4.55, LL = 4.5 + 3 eggs 0844 RL=7.2, LL=7.7, RW=5.4, B=4.05, +1 egg
12 Jun	0835 10.7 10.9 8.55 5.6 cg pipping (1 helped it by
_	removing cap. Chick + shell (-cap) = 4.2525 for shell = 4.0 hatchut
13 Jus	0905 15.45 15.7 12.3 85 2.75 (pecked up) I removed
	0735 19.45 (8.15) = DG, 19.2 (8.1) = 0, RW= 16.4, B= 11.7
	0845 25.1(9), 24 (9.1), RW=R=24.3(8.7), 15.1
	0845 35.3 (11.05), 36.25 (11.1), 32,5 (11.1), 25.8 (10.2)
	800 39.8 = G, 42.5 = 0, 37 = R, 28.5 = -, 26.3 = M, 26.4 = K
	At 1645 M=24.3 K=24.3 1 then gave them dog tood

A Constitution of the cons

b

		OKCO				HNHR
	10 7		2(13.05), 0=4	1///20)	- 1177 (1-	
	19 Jun					
	- 1		2.05) M = 3	-		
	2) June		5.4 14.2		3 4	5
		0 53.1			a terri	ble day
		K 38	15.05			/
		- 40.6	14.2			, a ***
		R 51.2	15.05	2.6	1.5 3	
-		M 37.9	15.05			
	23 Jun	0 65.8	15.45	10	4.8 7	
		R 62.4	16	7.5	5 7.	3 (2)
		M 46	16.5	51	2.8 4.	
		- 525	15.5	5.1	4 4.	6
-		<u>o</u> G 67	15.2	14 almost	7.3 11	
		K 44.5	16.4	5.3	2.8 4.	2
	26 Jun	M 53.5 38	.3 18.3	14.5 15.2	8 12	.5
		0 65.4 4	9 17.4 2	0.5 23.6	11.2 1	7.6
		K 52.5 38	1.2 19.65 1	3.3 15.3	5.7	11.2
		- 59.5 4	1 17.2 1	4.2 16	8.2	14.1
		G 72.5 55	5.5 17.2 2	23 29.5	12.3	22.3
			7 17.8			_
	28 Jun	M 6) 49.		20 25		
		•	7 18.7 1			23.5
- director o			8.5 17.95 Z			
			17.85 2			
			8 19.2 1			
			8 17.9 17			
		0 3 31,	0 1.1 (1	7.7.	TOWN II.)	~~

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	OKCO		HNHR
30 Jun	0940 K 63.6 60 20.0 22 34	9.5	23
	- 70.2 63 18.35 21.5 36	14.3	27
	R 79 69 19.35 25.5 41	17	29.6
	0 76 70 18.55 23 43.7	15	29.8
	M 63.2 61 19.8 22.5 34.5	15.5	24.5
	G 79 75.5 18.7 24.1 50.6	18.8	35.4
2 Ju	G 82 86.5 19.35 23.5 61.2	20	41.7
	M 71 20.75 265 46	17.8	30.6
B	R 78.1 78 20.05 29.5 50,8		36
	0 76.3 79 19.4 22.6 59	17	35.5
	K 66 70.5 20.85 24 44	4 15.3	29
	- 72 74 18.9 ZZ.7 46.	thris and the first through the first and th	32.9
4 1/4	0 81 89 20.2 24.5 64	15	
	R 71 80.5 21.65 24.5 54		34.5
ate.	R 79.5 87.5 21.3 21.8 61		174
.949.	a 73.5 96 20 26 70.8		11110
	- 70 82.5 20.4 24.5 56.		01.1
· · · · · · ·	n) 75 83 21.75 25 56	.3 20	36.5
	190011 SULLENGUARE MANAGER	7	7
13 Vec	Acorn Count: main gran 1300 othe	r 100 = 1	2000
	saw 8 1637, 4 R/		



	w Gate HNHR
30 Mar	
0071100	o 730 Heard pecking in central part of sycamore but saw no birds (in a trok?) I helloe'd but got no body.
Do . 07	A == (+ : 1000
9 A	Acorn Count: 1000
BAPT	1030 Bird Flushed From the high NW hole. Yuk
10 May	1000 Walt dimbs high hole, tinds 6 babies, 5 alive + one
,	39.8 (11.8) dead. This was the largest baby. It had
	no external injuries and appeared to have been
	healthy when it died. H' seemed almost too tresh
the transfer of the popular and the second of the second o	to blavne on the hail storm.
21 Jun	Jane reports 9 in nest hole.
zz Jun	I hello hole twice this afternoon - no one home
	1700 7 in hole. Wow.
[26 May	1581 80.4 84 21.5 34
	1582 91.2 92 23 40
	1583 77.8 85 21.4 38
•	1584 81.2 87 21.1 37
	1585 81.7 71 19.6 28
	1503
	1010 66.8 79 20.8 34 = 1662 = KPPK MP = 48,47
28 July	66.8 79 20.8 34 = 1662 = MP = 48,47
	69.8 78 20.2 33 = 1663 = OB-M = 45
	54.8 57 19.4 23 = 1664 = K.b W = 42
2 Aug	Jane (or Ellie) found J1584 dead at what (car?) 1584 is too delayedrated - bent up to get masurements
12 Ang	1584 is too deliged rated - bent up to get masurements
J	except culmen = 25.65 J1662 found munified in Square Nail Flat. Not eaten.
20 Sept	J1662 Found mounnified in Sanare Nail Flat. Not eaten.
1	<u></u>

DB-4 (DB-4(W))

	MI. Johnicivor
	WEate
(20 Sept)	Tail = 77.4 Bill = 23.9
2 Oct	Tail = 77.4, Bill = 23.9 0745 - 0900 Census : 1106, 1312, 5258, 1571, 1664
<u> </u>	(1664 has a ratty, dark crown - there were a
	(1664 has a ratty, dark crown - there were a couple of black Feathers in the Front, but its
	too soon to quess.)
12 Dec	Acorn Count: I counted @ 1100, but I'll estimate 1900] (I believe I underestimated last year)
	(1 believe / underestimated last year)
	Census 1445-1515: 1106, 1312, 1571, 1582, 1583,
	F 1663 F 1664
,	

		10 TOVINICIVOVES
		GATE
	30 Mar	0715 Moved the string from one of the syc holes.
	31 Mar	0715 Moved the string from one of the syc holes. 0855 Saw & V.LB/Y Pretty sure it was 1454.
	Dec 87	Acorn Count: 200
		Haven't seen anyone in the hole since Walt out the door
	13 Apr	Driving by I see bird in old hole right below new cutone
	20 Apr	Driving by I see bird in old hole right below new cutone Walt reports 2 eggs in high kole. Final clutch = 4 0640 K = 19.4(10) LP = 16.6(10) 13.2
	9 May	0640 K = 19.4(10) LP = 16.6 (10) 13.2
data	10 Sept	0830-0940 Census: 1453, 1454, 1578 (M?), 1580 (M)
	/	The big oak at the gate has lots at acorns, I think
		The big oak at the gate has lots at acorns, I think I saw 1579 >> 1 saw MK (but I thought it was MK
	3 Oct	0740.45 Quick cewws: 1453, 1454, M 1578,
-		
	12 Dec	F 15 79. Acorn Count: [300] Saw & 1580, 1578, 1379

			v	
,				

	PIPE
28 Mar	1430 2 birds here they've added lotsa acorns 1000
Da- 07	fleasin (must i (12 pag 300)
7 Apr	1430 On a whim I dimb the 86 hole - mouse nest.
	1340 Looked for nest - no luck
1	Walt reports 5 Fresh eggs in now low hole
24 Apr	0845 RL = 4.2, another egg pipping, another intert, 2 still unhat
25 Apr	0845 RL = 4.2, another egg pipping, another intert, 2 still unhat 0845 RL gone, 2 very cold babies - one looks new and an
•	unhatched tertile egg. One marked RL = 4.65 g B = 3.85 g. Both
	added to nest at Wolf. Egg added to Wolf also.
1 May	1030 Bird in hole
4 May	1500 ". Climb. I Fresh egg. #1
9 May	1800 5 eggs hatched early (18 May) 1210 RL = 9.3 LL = 8.6 RW = 9.3 LW = 4.8 B = 3.5
19 May	1210 RL = 9.3 LL = 8.6 RW = 9.3 LW = 4.8 B = 3.5
20 May	1210 RL=11.95 LL=11.3 RW=12.1 LW=7.0 = 3.1
21 May	1230 RL=W=15.8, LL=M=16.1, RW=LG=15.7, LW=10.2
	Runt is gone: even in ideal circumstances (hot weather and a
	ladybug boom) a monog pair cannot raise > 4 kids 1150 $w = 18.8 (10)$, $G = 20 (10.05)$, $M = 19.6 (19.6)$, $r = 13.5$
22 May	W = 18.8 (10), G = 20 (10.05), M = 19.6 (19.6), r = 13.5
23 May	1150 W= 23 (11.05) LG = 22.8(10.9), M= 24.2 (10.8) r= 14.5
	1345 29.6(13.1) 30.6(12.95) 31.45(12.55) 20.1(10.7)
	1320 32.9(13.85), 34.4(13.65), 35.4(13.5), 21.8 (11.35)
28 May	1200 42 (15.4) 41.7 (15.5) 44.2 (15.1), 27.6 (12.65) = 36.6
30 May	1115 w 47.4 (16.5 6.1 5.7
·	LE 48 16.6 4.7 2.7 5.1
	m 49.8 16.2 4.1 3.5
	- 30.05 13.85



))		PI	PE						HNH	R
	1 Jun	P1 103 46	5 60		17.85	9.0	6	6.5	9.6	To the Samuel of
		W	61		17.5	11.5		1)		-
		M	62.2		17.5	9.3		6.5	9	
***		The state of the s	40		15.05	3, 1		3	4-1	(Plant Villah de Alexandron euro euro euro euro euro euro euro euro
	3 Jun	1150	66.5	44	18.95	17.5	18	9	17	-
		M	70	43	18.7	17.2	18	9	16	
		W	67.5	45	18.9	15.5	20		18	
		-	47		16.45	6.2		7	8.7	aller -
	5 Jun	1215 M	72.9	54	19.9	23	28.1	13	ママ	Philippedialeterates and programme and a second
		W	68.9	56	195	21.5	30.Z	145		
		G	66	54	19.9	19.1	28	13.6	22.5	enter en C Sellistification en entre en
)		colon	50	35	17.45	12.5		11	13	
	7 Jun	1100 W	69.9	67	20.15	35	40	16	30).
***********		_	54.4	44.5	18.2	16.1	20.2	9	18	
		G	68.9	63.5	70.55	23.5	5 37.6	16	28.4	nds -
v,=======		M	74	65	20.6	24.5	38	17	27.5	
	9 Jun	1015	57.5	54	18.75	21	29	12	24	-
		w	69	76	21.2	25	50	17.5	35.5	-
		M	78	74	21.2	25	47.9	16	33.6	,
		4	71,7	72	21	23.5	47.5	17	34	49
	11 Jun	0855	66.3	66	19.4	22.5	39.2	16.5	29	11
		M	81	84	71.7	25	57.7	20.5	39.5	13
		G	72.7	83	71.8	24	57.4	15	40	12
		W	73.8	87	21.7	25.7	60	21	41.5	14
	13 Jun	1400 MY0	66.6	77	20.0	22	50.9	16.7	34,5	B
		nw	71.3	96	22.3	22	70	15	47.4	Y -
		GRE	78.7	94.5	22.9	23	68.8	25	45.6	
		- 110	/ (74	22.65	45	6/7	16	76	£ -

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	11. Tormicivorus
j)	PIPE
8 Sept	0835-0905 Set up blind but no birds came
	0835-0905 Set up blind but no birds came. They still have a few acrons left. Abandon? 0910 As I'm leaving 2 birds arrive, See me + leave. Acorn Count: 1300
	0910 As I'm leaving 2 birds arrive See me + leave.
11 Dec	Acorn Count: 1300
<u> </u>	
	*
<u> </u>	

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	Warp 5				HNHR
11 May	1030 7 opagu	e eggs	in the cut ou	t webbine	hole in
1	1030 7 opagu the black oak				
15 May	1015 RL= 6.5 L	L= 5.35	RW = 5.1 4W	= 7.2 3	=12
/	legg pipping) Stull	unhatched but	Fertile.	
716 May	1 egg pipping 1345 RL= 9.5 L	L=7.1 R	w=6.0 Lw = 11	B=17.5	PIP = 2.55
	(removed) Last (egg hatching	- I helped it a	- bit.	'
7	(removed) Last e 1745 (in lab): 1040 B = 23.6	2.3 q + i	still alive D	ied 1800	
18 May	1040 B = 23.6	RL = 14.35	LL=12.3	LW = 14	and has
/	wierd spite stic	ting out ō	F Lead / tougue)	
20 May	%25 RL=LB=20	5 (10.05)	LL = 18.25 LW	=P=22/1	0.45)
1	Back = R = 30.8 (1	2)			
22 May	0640 P = 32.61	(12.65) L	B: 32 (11.8)	R=43.9(13	26.9
26 May	0715 47.6 (15.8)	46.4 (14.	45),58(16.1)6.21	(3.3) 44	(14.25)
28 May	0715 47.6(15.8) 1115 P 58.5	17.05	5.9	4.5	
•	- 59.3	•			
	R 72.1	17.3	13.75 13.8	8	10
	B 58.5	15.55	6.1	2.5	
30 May	R 74 50	17.85	19,8 22.5	10.5	16
	LB 60.5	16.45	12.2	6	7.7
	P 60.4 34	18.15	10.5 11	8	
	- 64.5	16.8	6.4	4	
1 Jun	0945 73.5 44.5	17.45	7.2 20.1	8.5 1	3.5
	- 76.2 36.5	17.75	12	7.9	7.5
	P 68.2 41.5	18.95 1	4.7 17.9	10 1	3.5
	R 87.1 61	18.65	23 32.5	14 2	. 3

.

	Wrp5		HNHR						
5 Jun	1030 R 79-2 81 20.5	28.5 54.2 25	35.5						
	B 73.8 66.5 19.2	23 41.5 15	26						
	P 73 62 20.25	21.5 36.9 14	26						
	- 77.8 55.5 19.45	21.8 29 115	21.8						
7 Jun	1010 BN 73.1 77 19.9	26.5 51.8 16	32						
	BKR 80 90 20.6	24 63.4 24.3	41.5						
?	MKW 74.2 71.5 20.5	23 46.7 16.2	31.5						
	80 63 20.1		26.6						
9 Jun	0925 BKR 78.9 99 221	23 2005 72.5 19.5	47.7						
î	MKW 73 80 21.7	20 56 19	38						
Ŷ.	BN 78.5 87 20.25	24 62 21	38						
Eugst	MM 77.8 72 20.7	20 46 19	32.5						
IJuly	0430 BKR 71 137 24.0	= J 1591	Ta: 1-281.5						
	The only tail spotting was 2 very tiny spots on the outer retrices.								
	outer retrices.								
29 Sept	0710-0800 Waited in p	reset blind - nothing.							
Dec	No Acorns!								
*	* Group Update * The whole group started to Tizzle out ever since banding. No one ever showed up for								
	out ever since banding.	No one ever showed up	for						
	censuses. 1 LSO: 5308	- 380325, 1467 - 880	325 1468-						
	880603 1591 - 880919,								
	1594 - 880929 . All disa								

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Wolf HNHR Dec 87 Acorn Count: 285 11 Apr 1315 Spied on 87 hole awhile - nothing. 14 Apr 1300 Cut open role in syc snag - 6 tresh eggs. 24 Apr 1445 RL= 5.1 LL= 6.3 RW= 6.5 25 Apr 0745 RL (now LW) = 6.0, LL = 7.44, RW = 7.38 RL = (5.0 g also 2 pipping eggs. Doops now there's ZRLs in here one from Pipe (4.65 g) and one from Wolf (5.0). This is because I moved 2 dying Pipe babies into Wolf. 1 also added an unhatched egg from Pipe. There are now b bubies and 3 eggs in the nest. The other Pipe baby B=385 26 Apr 1000 big RL=BL= 8.05, RL= 7.6, LL= 11.8 LL= 4.8 RW: 11.0, RW: 4.9, LW: 10.1, LW: 43, B=6.3) 1030 BL=12.3, PL=11.3, LL=16.3, LL=6.4, RW=15.6, RW: 5.95, LW: 14.4, LW= 3.7, (B=9.9) 28 Apr 1020 BL= 15.8, RL= 14.7, LL= 20.4 (9.7), LL= 9.4, RW=18.45 RW = 8.9, LW = 19.2 (9.45), LW = 3.65, B = 13.2 29 Apr 1100 BL = 200 (95) = B RL = Y = 19.7(10) LL = G = 200 (11) LL = 13.2 RW=R=24.1 (10.4), RW=11.8, LW=K=22.8 (10.5), B=W= (9.4) 30 Apr 1030 K: 26.3 (11.55), W = 20.3 (10.3), B = 23 (10.35), G = 28.3 (12.25) Y= 22.8 (10.7) R= 26.7 (11.3) RW=12.9, LL=16.2 1 May 1045 W=22(11.15), K=30(12.4), R=295(12.15), Y=25.2(11.5) B = 26.5(11.3), G = 30.9 (13.25), = 18.5(10) = 13.6 2 May 1130 Y = 29(12.4), K = 34.5(129), B = 29.4 (12.3), G=36.6 (14.5) W = 27 (12.25) R= 33.5 (13.1), P = 20.5 (10.7) 17 (10.15) 3 May 1045 G=41.3(14.95), B= 31.4(13), W= 31.2(13.2), K=35.6(13.9) P= 22.9 (11.4) R= 38 (13.8) Y= 32 (13.2) 20.4 (10.8)

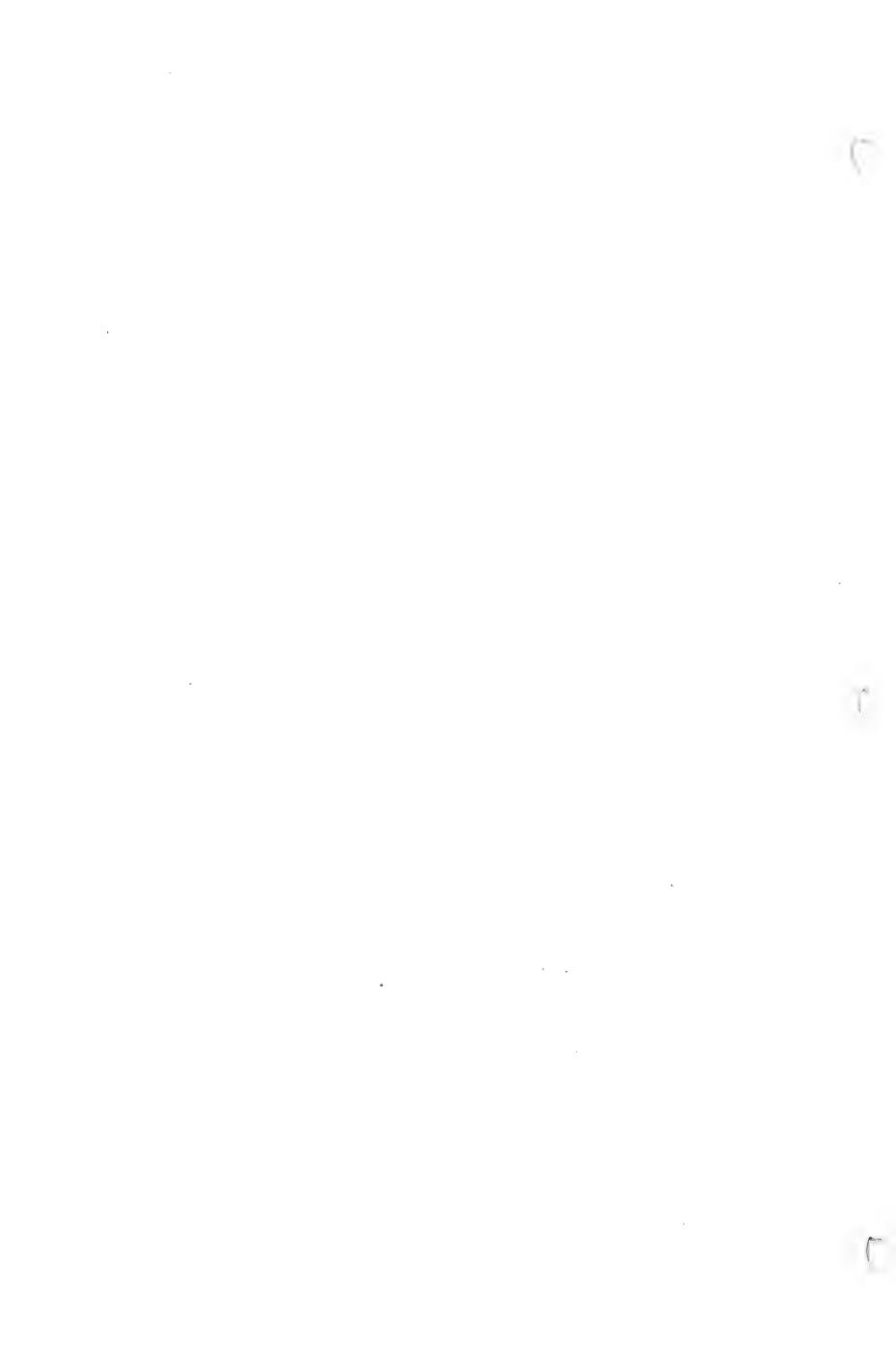


	WOLF
	endring suggest the wanter water believe and the there
6 May	W: 36.6 (15.65), P: 27.3 (13.95), B: 41.4 (15.2) 4, R: 45.2 (15.55) 3.85 (2.3)
	Y: 40.4 (15.7), G: 49 (17.1), K: 48.1 (16.1) 5.5 (4.1), T: 21.7 (13.1)
8 May	W = 46.5(16.9)3.9(3.9) $G = 61.9(18.1)7.4(5)6(2)$, $B = 53.3(16.3)8.1(6.05)$
	· = 21.4(14.1) Y = 50.5(16.8) 4.9(3.2), P= 27.8(15.2) 2.7 bruised
	K+R= dead, R gone from nest
	K (ex past facto) = 49.4 (16.45) 11 (4.5) 6.8 Head injury-plack on
	back of right sider; many pecks on back; right wing pecked;
	bruises on chest; right leg bruised + pecked. Will be preserved.
entriconsiditativo disseguence establicativo de transferencia de la constitución de la co	Outer hind top on L Foot broken.
9 May	B = 60 (16.7) 11 (8.2) Y = 54 (17.2) 7 (5) 6, P = 31.4 (15.35) 4 (2.5)
1771217	$G = 66.6 (18.85) \stackrel{\text{sh}:+}{\text{DOS}} (10.5) 7 (10)^{3} W = 51.3 (17.4) 5.3 (5.5) 7$
10 Ma.	1115 63.8 37 17.35 13.2 13.9 7.2 10.9
tory	W 56.1 17.9 7.4 7 9
	Y 59.8 17.7 10 6.5 9 (2
	G 70 40 (19.1) 13 14.5 6.3 12.5 (2
	P 37.4 15.75 6.05 3.08
	big clouds of ladybugs today
11 Man	1115 62.2 39 18.3 13 14.2 7.8 12
, ,	B 66.5 42.5 17.7 16.5 19 9 14.5
	W 61.9 18.2 10.9 10 12
	G 71.7 46 (19.6) 19.2 17.4 19.7 8.8 155 @
	- 37.5 16.1 9.45 6
12 May	W 62.2 38 18.85 12.8 15 11.8 15
12 11 149	B 67.9 49 18.25 19.8 24 10.5 17.3
	G 69.7 52 20.2 19 25.2 11.5 18 Y 61.5 45 18.95 16.5 19.2 9.5 15
	_ 39.5 16.8

	Welt						HNA	YR_
14 May	1030	57	19.8	22.5	29.5)/	22	
/	W 70.5	48.5	20	19	24.5	12	21	
	P 42	37	17.8	12,9	17.8	7.5	12	
	G 73.9	62 BANTO	21.7	24.5	35.5	15	24.5	
	B 77	60	19.350	23.5	34.3	13	23.5	
16 May	w 79.5		21		36.5	,	28	
/	P 52.7	48	18.45	18	26.5	11.5	18.7	
	LG 78.5	74.5	22.4	24	47	16	31.6	
	LB 82.9	72	20.25	27.5	46.3	15.3	30.3	
		69.5	21.05	24	41.5	14.2	29	
18 May	Y 70.3	79.5	21.85	25	51.5	15	34	e de la companya del la companya de
/	P 55.2	56	19.2	21.6	33.5	12.5	23	
	w 80.5	71.5	21.7	26	46	16.5	32.8	
	B 82.2		21.2	25			36.5	
	G 79.4	84	Z3. Z	25	57	20	37.5	
20 May	1300	89.5	22.4	275	62	18.5	37.5 41 ne	nger ck Y
W			22.4	27	56.4	20		G
K	YON 81.7		23.8	24	67	19	44.4	B
	1 64.5						29	
B	PKB 88.5							
	Jane rep			1	1			
29 Jun	0855 - 09	20 Wa	tch hi	hole - r	o action	A+	ONE NOIN	+
***************************************	there wa	is an	alarm	call a	nd Z	hirds	(invs	1
	think)	rushed	to ano	they he	de in	that	trop +	15
	1 left							
	head on		. 10	- W. I				· · · · · · · · · · · · · · · · · · ·
14 July	Roost wa		- nest -	nada				
						The state of the s	Alternativalisment in the same open and the same in the same	



	1. Tormicivorus
	WOIF
8 Sept	0800-0830 Cansus: 1123, 579, 1336
14 Sept	0500 Yipee, the hobber ambush worked: caught 91333, 31336,
	* 8 5 579 rebanded (see cap record) 9 5293 banded
	as 9 1672. Stupid computer won't put her on the list.
29 Sept	0700 Walking by 1 get & RW = , 4 RM = , & BM = i
	, 8 = N = Dormen.
	0810-0920 Census: 81123, 8579, 81336, 91333, 91672,
	J 1548 is 8, J 1550 is 8. All birds seen repeatedly.
	No other Jus seen. Good place to census is uphill
	From the big voak on the w side of the voad.
	From the big voak on the W side of the voad. 579 = Mumiller 1672 = DB-W(N) DB R-LG
11 Dec	Acorn Count: syc: 100 15001
	Acorn Count: syc: 100 59w 5793 oak: 350 ~ [500]



	RI
30 Mar	1345 Saw 9 804 (MK IB.Y/DB.Y) Field list has here as
	DB-Y/OB-LP No, shes LB.Y/ There's a nice
	new hole in the big oat, 2 down from the .
Dec 87	Acorn Count: 1578
ZApr	1345 Several birds in the Bongo tree-mate guarding? 1330 Searched for nest - tound nothing. 1630 5 Fresh eggs in high hole (new) in road syc. 1130 Birds at Finch - who are they? 1800 1513 77.5 82 22.3 28.5 38 18.5 38.5
11 Apr	1330 Searched for nest - tound nothing.
23 Apr	1630 5 Fresh eggs in high hole (new) in road syc.
10 May	1130 Birds at Finch - who are they?
25 May	1800 1573 77.5 82 22.3 28.5 38 18.5 38.5
Physician and the second are all the second and the	1574 89.5 88 20.6 23 61 18-5 38.5
	1575 76 80 21.6 25 54.5 18 34 3
	1576 64 70 1955 29 45.3 14 28.5
	1577 70 66 20.3 25 42 14.5 26
	1630-1650 Census: 1574 (N) + 1576 (KDG)
10 July	2000 Ambush J 1573 wt: 76.5, ch=138, T=79, == Z7.6
9 Sept	0705-0740 Census: JM=1575 LPKLB=1573,
•	LB BYCN): 1574, (all 8), NOBA 8 = 5295,
	DGO = ? 377 9 LKL = 804 ?? , 9 MLB = 1464
6 Nov	Ambush: caught J9 1576: 70.1 (138) 28.2 (77)
	Herit: 59, 58.5, 60, 59, 58, 56, 61
11 Dec	Acorn Count: uphill oak: 250 [1100]
	saw 1573 syc snag: 850

1988

1		
	Mac Flat HNHR	-
Dec 87	Acorn Count: 780	
	1350 After sev days of cruising koles here	
	unsuccessfully, I see a bird in the low, stupid,	-
	new hole in the sycamore that leans over the	
	road on the Eside of road. 2 birds Flush out.	-
	1500 Check it. Empty, but good shape	
10 Ans	1430 2 Fresh eggs in the stupid hele. I cut door, #1-	
11 Apr	1300 Marked par # 3 (is there only 19 here?)	
12 40-	1300 Marked egg # 3 (is there only 19 kere?) 1230 Marked egg # 4. They are warm. Bird in kole.	
201	1880 (1) 26.05 × 19.3, (2) 25.95 × 18.8 (3) 27.1 × 18.85	
I I		
12 124 A -	(4) 27.4 × 19.85, (5) 26.55 × 19.0	
25 Ans	1200 Hatched early 12.0 11.0 5.65 9.3 1330 RL = 15.2 LL=15.3 RW=9.3 LW=12.4 r=39=035	No.
5 26 A	1100 18.8(8.95) / 18 (9.0) / RW=11.5 LV=15.7 -= 3.55	
	1115 24 (9.75), 22.7(10.1), $LW = 21.3(10)$ $RW = 15.3$ 1100 29.4(10.5), 26.6(11.1) $25.5(11.1)$ 19 (9)	_"
	1140 35 (11.8) 31 (11.9) 30 (12.2) 23.8 (9.75)	arantarra
	1100 37.7(12.5) 34.4(12.95) 35.6(13.25) 24.8(10.45)	
3 M	1120 41.2 (13.3) 38.6 (13.6) 379 (14.25) 29.5 (112)	
(M	11.15 $\frac{50}{40.7}$ (15.05) 4.4 $48(14.9)$ 4.3 $49(16.2)$ $37.4(12.07)$ 0.5 12.15 65.5 17.1 13.3 14.5 6 10	-
, :		eria
4	G 61.9 16.6 14.7 14.8 7 11.8	Sarri Sarri
	5 110 18.4 9.2 5.2 9.5	
16 Q May	5 49 15.2 4.7 1.8 1320 R 71.1 50 18.15 19.7 24. 12 16	
	R 71.1 50 18.15 19.7 24. 12 16 5 58.1 35 16.4 12.6 6 7.2	mpha
	L 69.7 41 19.6 16.3 17.3 10.5 16.1	tor y
	G 67.8 49 18 22.4 25.2 13.2 19.2	and the second of



).l	Ma	nc Flat	-					HN	IHR
	1200		2	200		/ 23.7)		
18 10 May			6)	18.85	20.5	33.1	12	226	
	a	80.9		5 18.6				25.8	
	5	72.7	46	17.2	18.3	20.8	7	13.5	the same of the sa
	1210	87.5	53	20.35	19	26.3	12.5	22.2	
12 May		80.8	75	195	30	47.5	17.8	33	
(19.7		45.5	14	30	
76.8	5	>86.8°	59	18.25	23	31.7	12	20.5	
	4	80.8(3)	65	21		37.5	15.5	28.5	
14 May	1300			19.4	29.3	43	14.5	27.5	
/	R	84	85		<i>Z6</i>	56.5	13.5	36	
	L	79.5		22.3	24	48.9	14	34.2	
1	G	789	86	21	32	59	17.5	39.4	
24 16 May	1300 R	88 (73.5	22.05				43. 2	
	OKN	82.		20.5					
Ĺ	1	84.6			26.5		17.7		hit for the section of the section o
<u> </u>	apa	809	97	217	79 3	70 5	10	س برنا	Andrews Alle An Specific materials and a second
18 May	1235 R	82.8	103	22.3	24	77	16	49	P
G	OM	81 1	07	22.6	28	80.2	15.5	49 52.5	B
	s wn	83	18	23.45	27	70	14	47.5	Υ
	Ì							40	
21 Jun	1610	- 1430	Cer	1546 2 6	uma clue	s but	LAD DE	situe II)4
8 50 F	100	~ C		/ H h:	-l-	Ho of	-: +		
o sept	150	15/2	1 30 136		192\	THE SI	ving ir	sitive II	13)
206 1	19 -	75 (0	ana	13 76 (77	111		111	
29 Jept	1000	- 1/00	Len	sus: 10 burn 380	73, 14	133, 13	745,1	3 76	Anthonograph Agency, and Addition I have reported by American
Il Dec	Hoos	rn Cou	nT; s	hag 386	/			-	reduce side-processor, grant grant garden - grant - des grant garden
	gold	string	300	, syc pol	400		~ 14	50	
	stu	np 5	0	branchy	syc 30	0			
1				,	V				

• 1

	R3 HNHR
	1450 Saw & 1011 (GP(N)/LP). Theres a new
	5 Facina hole in the dia oak by the road.
30 Mar	5 facing hole in the big oak by the road. 1430 Bird in 87 hole. Flushed.
	Acorn Count: 999
	0940 Saw 0/LG-0 or 0-LG/o . who is this?
,	We come with the big ladder to check 87 hole,
	but there's a bird in another hole!
7 Apr	1400 Well, Damn. On arrival there's a bivd at
	the "other" hole from 5 Apr, but there's a bird
	with its head out of the 87 hole (Ludder at Buck)
	1500 Driving by I see bird in 87 hole.
12 Apr	1330 87 hole: 3 eggs - somewhat Fresh, but not too.
25 Apr	135 Bird in hole
5 May	13,5 Bird in hole 1630 1511 84.5 51 19.5 18.9 24.7 10.2 16.5 P
	1510 80 50 19.7 20 23.5 11 17.5 Y
	1509 80.7 46 19.95 17.5 19 13.2 16 B
	Jane reports teeding
2 July	1633 67.9 66.5 21 20 40 15 32.8
/	1634 68.4 68 21.2 24 42.8 15.5 32.3 2
	1635 659 65 20.15 22.6 37.2 17.5 27.5 3
	1005-1030 Semi-spied: Saw & 1011, 7 1205 60M
	A NOBA & sat in the live tree eating an acorn
	while 9,205 sat in the granary. He Fled when
	while 9,1205 sat in the granary. He Fled when 1011 arrived when I arrived 1011 was chasing.
	another bird around the granary, whas it this
	No BA ?
29 Sept	0945 SAW 1011 (MO) 1510 (DVM), 1511 (OW), 1633 WM

11 Dec: Acorn Count: sye ~ 1000 3 [1450]

J.

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	5HIL HNHR
Dec 87	Acorn Count: 2800
/	the tole above it is also very nice (both w tresh chips)
	The 87 nest toole is broken through to the top back of
	the higher hole on the w side.
13 July	1200 Saw (KW7) 260, & DETY.0 , 3 LB.Y/LB.Y
	down at the Pump (For 1/20) Are the 3's also SHIL?
13 Ang	0830: +10 on 4260 et Partrap at sums.
11 5ept	Saw 1338 + 1426 at Pump pan
	1300: Saw at KNOL: 1385, 1426, and they seemed
	to be in the company of a NOBA 7 and a NOBA juv!
13 Dec	Acorn Count: not impressive - only the main gran had sub-
	Acorn Count: not impressive - only the main gran had sub- stantial acorns; about 1200, log beneath it = 165, other
	gran trees = 100 [1500]

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ECF (Ecole Coline Fanx)

HNHR

30 Nov Ambush. Caught NOBA & (now 1677). 3 birds tried to go
in hole last night, but she prevented other two from
going in . Unknown to me, one of them roosted in an
old knot in the same tree. It Flushed just before
I came out of the tree. This tree is just inside
the woods at the SE corner (top of hill) of SHI
Field. These birds appear to own the top of
6HIL Field (all across)

• .

SHW Acorn Count: 11 Apr Walt climbs 87 hole + reports 2 (Fresh?) eggs.
24 Aug Walt bands a single bary here 46.2 g, chord= 28 , tail 13 mm 25 Ang Jane does a watch, but no one teeds. Abandon? and 7 1374 (LE). I also saw another bird with them that seemed to be & MRWN who is it? Immediately after these binds lett, a NOBA Jr= came to the pan to drink 13 Dec Acorn Count: [490] (1 watched For 15 min betorehand, but no one came

	Art 2	HNHR
4 Apr	1515 Bird in 87 hole (lower tagged hole a	loor up hark
6 Apr	1515 Bird in 87 tole (lower tagged hole a 1000 Bird in hole above (no door) Peuped - 4 tell how Fresh. Check tomorrow 1300 1514: 71.5 (56) [1513 = 76.3 (58) 1512 = 73.6 1430 Hello holes - nothing. Checked granary - not alot of acorns remain.	eggs - condil
	tell how Fresh. Check tomorrow	,
6 May	300 $ 514 = 71.5(56) $ $ 513 = 76.3(58) $ $ 512 = 73.6$	(60)
14 Jun	1430 Hello holes - nothing. Checked granary -	- some but
	not alot of acorns remain.	
		-
tanda u ann 1 than teore ann an ann an Arthur Albert ann ann an Arthur Arbert ann a	·	_
- Parkering profess Programming and the control of		_
anger aggl. Ager a data gan gantanga gantanga ga sa kayar sa		_
allerhad Meller and a letter years who their sold home before, see the ending		
nadridad disk. "nad vilatigad disklada i Jast sakum ka kedistik disk		
O delakasarkasarkasangan perunangkan sapangkan 1927 dan		
distance of the desired devices, we see you as one or or the desired		
at Annual Market (September 1954). The second section of the second section of the second section of the sectio		
		-
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	BKOK		HNHR
29 M	BKOK.	g-w(N)M (1212	?
		300	·
			7 tree) 4 eggs (Fresh?)
	1		25.9 * 17.2 , (4) 25.7 * 18
7			Poops - just a Flicker.
11 Apr	0715 Damn - 1 K	new they would hate	h yesterday but what
l	could I do? RL	= 7.75 LL = 8.3 R	w: 8.1 Lw: 5.15
12 Apr	0640 12.0	12.5 mm 12.8=	w: 8.1 Lw: 5.15
15 Apr	0720 21.7 (10.3)	23.5(11) 22.4/10.4) 17 (think
17 Apr			.1) 19 (10.3)
19 Apr	and the state of t		
A		47.5 (15.8) 46.8 (14	1.8) 35.9 (13.1)
23 Apr	0900 53 (16) 6.5 (3.	47.5 (15.8) 46.8 (14 2) 56.5 (16.85) 5.35 (4) 55.6 (16) B:11 1°5 1°	8.2(4.6) 42.5 (14.7)
28 Apr	0845 6. Chor	B:11 l's 1°	TS T
	9B 70.5 59	18.85 22.5 29.2	10.6 20.5
	Rw 75.9 54	19.6 21 26.7	11.5 20.2
	MG 68.8 58.0	18.5 19 26.7	12.2 19
	- 58.8 34	17.1 11.1	10 11.6
30 Apr	0 ¹³⁰ Mg 70 65	19.4 22 37.5	15.5 25
	gB 72.9 69	19.66 26 40.6	16.2 27.4
	2 63.8 18.2	16 19 14.6	17.6 = 43 chord
	RW 77 65	20.65 235 38	15.7 26.5
2 May	- 69.4 53	18.9 19.4 28.2	16 23
/		20.3 26 49.4	17.7 32.1
	RW 79 77	21.7 23.5 49.8	16.2. 333
	36 78 78 7	0.6 25 52.1	17 33.8

8-1:7-1:n5=6 2 hortel 3.2,5

	BKO	K							HNHR
5 May	86 0645	74	93	21.5	27	67	19	43	pink 1495
snowing ! here!	MRW	78.5	94	23.4	23.4	65	17	42	green 1494
here.	i e								
	_	70.5	68	20	24	42.2	22	31.5	ye 1/0 w 492
27 May	1300	Vest! 1	n 87	hole.	3 Fre	sh eggs	(#3	today	? (lean])
1 Jan	1530	4 ego	5			~			
8 Jun	1200	None	hatch	ed yet!	Pulled	l out	2 eggs	(#2)	Ping
	#4,	ot)/	thin	k juv.	sslow	down	the p	vocess	
1 Jan 8 Jun 9 Jun	1220	RL =	4.4	LL = 4.	25 RI	v = 4.6	B	3./	
10 Jun	1200	7.4.	5	6.95		7.35		4.55	
11 Jun	1								
12 Jun	1220	15.5		15		14.7		10.2	
13 Jun	1255	K=21.	2 (8.8	\overline{LB}	= 19.8 (8	(42), 40	= 19.6	(9.35),	15.5
14 Jun	1250	26.1 (1	0),	26.6	9.8)	25.4 (10.45	, 19.7	(8.65)
	0	-	_			-		25.2 (9	
18 Jun	1220	48.6 (13	3.8),	467(13.9)	42.7/	(4.35)	, 40.2 (11.75)
20 Jun	K 5	1.8		15.55	3, 3		4		
	B 5	3.8		15.75	3.4		3.5	4.5	
	G 5	2	/	6.25	4.9		3	4	
	- 4	4.5		13.9					
	1 disc	cverd o	gran	n limb	in the	nest t	vee s	io add 3	00 acorns
22 Jun	K 6:		_						
	- 51	1.5	15	.65	4.6		4		
								ス 7.	
	B 58	.4 3	4 1	7.2	9.2	9.5	4	.4 8	.6

	BKOK
25 Jun	1315
	to 68.8 51.5 19.15 19.5 25 14 18.8
	- 61.8 41.5 17.1 15.2 17 6.2 13
	K 72 49 18.2 18 22.8 12 20
28 Jun	1500 - 65 59 18.3 19.5 31.4 12.2 22.2
	K 78.5 66 20.25 23.5 39.4 16 310.2
	G 69.9 68 20.25 21 40.7 14.6 29.5
	B 73.9 68 20.6 23 39.7 16 28
29 Jun	
30 Jun	1525 74.9 69 18.6 24 41.5 15 28.2 Black
	G 78 18 20.9 21.7 51.7 155 36 gone,
	1230
1 July	G 78.7 82 21.17 25.5 56 17 38.5 = 1630
	- 77 73 19 23.5 47.3 15.8 31.3 1631
- A	B 83.3 845 21.4 25.8 55.6 17 37 1632
3 July	no 80.8 94 22.1 25 65.6 16.5 43.5
	NW 79.7 85 20 26.5 57.9 16.3 37.5
	6KG 788 92 21.85 20 65.6 14.5 45.6
9 Sept	
	900-1000 1 sat outside the blind, overy close to
	the BKOK tree that they were building in in 87.
	Saw 1006, 1009, and 1213 here. 1006 - 1213 were
	especially interested in the hole - visiting it
	constantly despite my nearness. At 1000 I moved
	to BKOK proper, where I saw 7 MD (1004?) Here though all birds disappeared upon my arrival (At the border tree Acas Forty chasing starlings)
	Here Though all birds disappeared upon my arrival
over ->	(At the border tree ACWS tierry chasing slarlings)
1	

11 Dec: Acorn Count: 88 nest tree: 2500

www. gran: 2500

saw 1006

www tree 30

lower snag 2200

tree seside it 1600

+6401 6710

5080 1 way = 1400 : 3000

1 50 BD

HNHR Acorn Count: 7000 0800 2 birds at 87 hole, 3rd came out soon after 6 Apr 0845 Put up new string, then climbed. They've tilled much of this cavernous hole with acorns Mustive done it in the fall. Anyway, they're all spronting - the birds are making a new entrance into the role as well. This hole was just above the new "floor" level, so l'eleaned out some of the acorns so eggs worldn't voll out. Not much of a laying surface. On the limb near the nest I tound white eggshell tragments, And Tossing? No birds in nest on arrival 0730-0930 / break my own rule about cutting open holes early - I assumed they'd be tinished laying by 18 Apr. Well maybe they were - there are 8 tresh cool eggs but had I waited 'til late morning maybe there would be 10. It was a time consuming climb + cut. (And a not very waterproof one. I hope they survived 19 Apr) 27 Apr 0640 Driving by I see that the door has tallen out and no one responded to my hello. Damn, I guess they tailed. No ! 0830 I see a bird at the hole I bite the bullet, tind the door duct tape it up clims the tree and replace it. One egg is gone 20.3 23.3

. *

9-1,5-1-=7

	AL
*	Group Update * 33 1026 + 1027 are back at UAZ (why them)
8 Jun	1330 9 in 87 hole. I climb. They've removed all the
	acorns! Of course, now I can't touch the bottom
	NOID bird in 88 nest hole
10 Jun	1230 NoID bird in 87 hole
	1330 Noio bird pecking (chips?) in 88 hole. Another bird at 87
	1400 Adult in 87 hole
12 Jun	1345 Baby in 88 hole, 87 hole empty (hello)
	1315 No one in either hole
	1415
	1320 Bird in 88 hole, bird at 87 hole
17 Jun	Jane reports incubating in 87 hole
18 Jun	1300 Climb - empty but chips. A big gopher snake was
	at the base of the tree (predation?) Added chips
20 Jun	1300 hello both holes - nothing
	1430 bird in 87 hole
22 Jun	1300 + 1400 hello both holes - nothing
	1520 6 Freshish warm eggs.
	1630 7 eggs .: will hatch "Jul 7"
8 July	0900 Very staggered hatching (started well before 7 July) There
	were 5 kids and one egg (inf? - 1 ve moved it) I don't
	think the 7th egg hatched + died - it would have
	hatched 2 day. If must've been removed earlier
51	RL=6.75, LL=16.2 RW=12.9 LW=9.0 B=4.2 0915 RL=11, LL= $R=25.2(9.76)$, RW=LB=19.7(9.4), LW=17(8.4) = K 0925 10.5(9.6), 35.4(12.15), 27.7(11.8), 21.2(10.53)
10 July	RL=11, LL=R=26.2 (9.76), RW=LB=19.7 (9.4), LW=17 (8.4)=16
	0925
14 July	9 (1035), 39 (14), 35.5 (13.55), 25 (12.22) nemoved



	AI HNHR
16 July	0825 68:40(15.24)-(3)/K:31(13.4)/Ř=44.7(15.38)-(2.7)
18 July	0835 46.5 (16.46)6(6) 35.4 (14.8) [54.3 (16.5) 6.6 (3) 6
20 July	0915 K 35.7 16.25 3.3 2 3.8
/	R 58 37 17.75 12.5 13.3 8.6 12 3
	B 55.8 37.2 17.9 12.5 13.7 \$7 12.5 3
22 July	R 60. 1 47.3 23 19 22.5 9.3 18.4
	B 55.8 47.2 19 17.7 22.5 9 18.3
	K 31.5 25.5 17.1 6.75 2.3 6.8 skinny
24 July	0830 R 67.8 59.5 19.4 22 32.9 12.5 75.5
/	B 60.5 59.6 19.9 22.8 33.1 12 24.5
	K 27.9 28.5 17.6 8.2 9.8 5.4 10.7
	Thus K went from 35.4 to 27.9 g. A record-no
	baby has done that and survived. He was still
	pretty vocal and energotic, but very stinny and 1
	Knew he would soon die - babies just don't make
	comebacks So I stutted him absolutely tull of
	meal worms (~ 4 g = ~20 worms). We'll see.
28 July	R 70.4 80 21.6 27.4 55 15.1 39 41,43
	B 65 79 22.2 27 55 14 38 47,47
	R: R.BR: 1660 B: Mb: 1661
4 Dec	Acorn Count: 2150, 3560, [6040] (6500)
	5aw 1220, M 1660 1340 1200-1250: 1026, 1220, 1660, marke 1661 (8) MABIN
11 Dec	1200 - 1250: 1026, 1220, 1660, marke 1661 (8) M4B(W

	Big T HNHR
29 Mar	1140 8 1234 (RKWN) at Big T. (From LAZ)
Dec 87	Acorn Count: 150
7 Apr	0700 Chasing of water + drumming - what's up?
26 Apr	0700 Chasing of waters - drumming - what's up? 0900 Found yest - lowish on 5 side of big tree in woods (E facing hole) 9 eggs (8+1 runt)
· ·	(E facing hole) 9 eggs (8+1 runt)
27 Apr	0700 Cut a door. Cavity has a hole in the back
/	oroo Cut a door. Cavity has a bole in the back well near the bottom that a chick could fall in, 1
	stuck a wad of duct tape in it. Of the 9 eggs, 1
	stuck a wad of duct tape in it. Of the 9 eggs, 1 others was intertibe, one a runt (both removed by me) opague
28 Apr	ogo Hello trole, nothing! The bastands must a fasted abandound. Tage!
29 Apr	0800 Hello trole, nothing! The bastands musta farted abandound. tage
3 May	0720 RL=10.1 LL=10.2 RW=7.5 LW=11.9 r=3.6
	There was an infertile egg in the hole (!?!) and another that
on bandan, alah kuta Pilakari banda NA NEWARKE (1994) (1984) (1984) (1984)	seemed to die at pipping (?) as a result of leing capped by a larger egg So, all eggs accounted for 0715 18.3(85) 16.5 60 12.1 20.5 (9.4) (W)
	by a larger egg So, all eggs accounted tor
4 May	6915 12.9 13.9 10.2 15.2 3.6
6 May	0715 18.3(85) 16.5 (0) 12.1 20.5(9.4) (W)
8/May	0643 21.6 (10) 20.2(10) 14.2 28.3 (11.2)
10 May	0630 31.7 (11.9) 26. (11.75) 19.1 (11.5) 36.5 (13.1)
12 May	0935 43.7(13.95) 39.5(13.5) 28.9(13.05) 50.5(14.85)
14 May	0630 50.9(inj) 2.8(2.3) 47.5 (14.7) 35 (14.35) 56.8 (16.2) 4.5 (4.4)
16 May	0700 65.5 39.5 (17.2) 13.4 - 9.7 10.4
,	0700 65.5 39.5 (17.2) 13.4 - 8.7 10.4 LB 59.9 32 16.3 9 - 6.2 8
	- 43 15.5
	0. 57 31 16.35 8.5 - 5.1 6.6

1988

	BigT
18 May	D800 W 72 50 18.65 19.5 23 10 18.2
	LB 64 41 (17.2) 15.8 17.5 8.5 14 2
	· 49 16.8 6.3 - 4.5 7.5 z
	º 63.5 40 (17.6) 14.2 15.5 6.8 13 Z
20 May	0 74.5 52 (18.6) 22.7 26.5 12 21 2
	- 62 39 (18.05 12.5 14.2 8.5 14.5 2
	LB 74.5 54 (18.2) 21.2 28.4 12 21.5 2
	W 80.5 63 (19.3) 22.7 34.5 15.5 24.5
23 May	B 77.4 71 (21.15) 24 45 15 32.5
/	0 77 68.5 (20.7) 23.5 43.5 16 31.5
	W 82.3 81 (21.2) 25 52.7 15.5 36
	- 67.5 56.5 (20.05) 17.7 29.6 12.2 24.5
26 May	1600 in healing oko 73 87 21.5 23.5 60.5 21 45
/	All other basies dead - very rotten (like sev days) One didn't have a
	head. Predation - weasel or pyg owl. So wasteful, I don't
	think it was because of infections (wouldn't have died that
	quickly) or o looked fine. Damn.
28 May	1600 71.9 95 (2012) (22.2) 22.5 20 16.5 48
	1400 Hello hok - nothing
	1410
10c+	0920 Stopped by tor quick census: 7 1319, & (Igness-
	not a very definitive of) 1565, an 5/612 (2).
	So what's J 1612 from LAZ doing hove - is he a
	breeder?
	Acorn Count: [200] Saw 9 1319

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HNHR KouI 29 Mar 8910 NOBA 4 at KOUT what's going on here watched NOBA 99 here. They spend a lot of time in the granary eating acorns. They were seen in the company of 82 peaceful There's lotsa chasing, wakas, garricks. Alet of the action is towards ARGW. Saw Big Tree of 1319 (all bands) up here. 8 1127 seen here. Also saw 3 MDB with lotsa tail spots - who is this? Al & 1027? The 87 nest tree is finally dead - and a big churk of it (including the 87 nest bole and the Goriz roost holes) has tallen - rather recently. This explains the power struggle - some binds must have died. The tree tall is recent anough to have green grass under it, but old enough to have a rood vert house built in it. No sodies tound in voost hole. Acorn Count: 6312 +1450 (ARSW?) = 7762 Roost Watch: Plenty of activity here - lotsa wakes + flying back + forth in groups. Several birds roosted in a new toole in main granary. The higher of the 2 new ones on this limb (wasn't able to watch tho (Jane had seen some last) other hole 21 Apr 1000 Bird flew to low E facing hole in burned 8745 No Eags 2 May Bird in hole in granary!

3 May 0800 Climbed - a horiz hole - peeped both directions but rouldust

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HNHR KOU.T 3 May) see anything. Cut a nice door, reached my whole arm 10 May 0650 Peep low hole - nothing. Repair high hole. 12 May Hello - nothing 14 May help-nothing, peep low hole - nothing 16 May hello - nothing 20 May hello horiz hole and bird Flushes 23 May hello all holes - nothing. 10900 try again, nothing 26 May 1730 No wonder, they nest is on this side of the tence, in the 2nd big tree up no-man's - knoll in a small (very) very dead snag. I tore a hole in it to get the Kids out (later patched w bark + moss) One tledged but I caught him. No banding year w me so ... 103 20 22.1 29.5 75 21.5 10\$ 20.55 26 76 Bird (8 ad) in horiz limb hade, but some dork took string 1500 hellod holes - nothing . Suspic Mush 5 side dead? 1130 Another Flush from 5 side lead gran. Hello holes - nothing Arrive via ATV start to hello nest hole when I hear a scream towards burn tree. I walk over to investigate and a Cooper's hawk Flushes From
the ground - Followed by an ACW flying with some difficulty. It goes straight to the 88 tease hole in the burn tree, looks at me then

1400 -14 80

1330

OKO (N) at myst gran

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TEN1

HNHR (28 Jun) Flies to the back side, then Flies to the high W hole. I walk around and an adult 4 has her head out. Is this the victim. I searched tou the impact site (for painted rump feathers) but tourd nothing at all. My guess is the hawk took advantage of my distracting the birds and hit one. I don't think they know it was coming because I noticed a bluetive acting rather normally fand heard other birds) after (just) the scream The scream lasted about 1-2 seconds and stopped. The hawk Fled @ 10 sec later. Why did the ACW stop screaming? If the intent was to draw a predator to the predator, it worked - but why did it stoy screaming ! (Screams are to startle the pred - work, all screaming would accomplish is to make the hawk squeeze harder.) 5 July 1400 Bird at mystery gran tlew to Koul. 0645-0830 Census: 1127, 1219, 1221, 1382, 1016, 1669 (the 1 that I saw a LB), 1670 (that sure was stupid to give heren the same bands as J1587), and 3 LB-KYR. LB (1 suppose this is 706). Those birds are spending an inordinate ant of time at the high hole in the (now completely dead) live oak gran. Free, not a nest is it? No, the door is gone from that hole - they've building a new door @ 4 feet below 10ct 0845 Put door back in hole. There were some Feather remains - is this the bird hit by the hawk?

SEE BACK OF PAGE ->

4 Dec Acorn Count: 3800 Main gran
250 Burn snag
250 tallen piece at snag
800 misc grans in grove
4100 total
1000 mystery gran

	AR	35 W						HNHR			
29 Mar	//(00 Sa	w 9 ,	1279 n	ear Ko	ut (R	- LBM B/R	}			
Dec 87	Ace	orn Cou	int: 7	780	(1450	in m-151	+ limb b	y Kout)			
6 Apr	174	ARSW 1100 Saw 9 1279 near Kout (R-LB/M) Acorn Count: 780 (1450 in myst limb by Kout) 1745 Bird into 87 nest trole									
7 Apr	08	30 5	warm	but not	complete	oly opag	ue ego	ys (# 1-5)			
14 Apr	08	45 Sno.	n ou ch	ews ridg	e - cold	windy, we	t RL=	7.5 LL = 10.7			
/	RW	= 10 4	w = 6.1	r:	4.5 (1	411 kids	were 3k	inny and pale -			
	1							Ap (13 Ap)			
17 Apr	091	5 RW	= TMD 19	7 (9,45	= Mx	LW(?) 11	.6 B	= 173 (9,Z) = G			
	RL	= 14.1	(8.9)	LL:	9.4	11 10 11	91	$\frac{2.65}{2.65} / LL = 13.4$ $\frac{35}{18.3} \left(\frac{9.7}{3.1} \right)$			
19 Apr	081	45	23.3 (10	95)/M=	27 (10.95)	K=14/Y	= 19.8 (10	2.65)/LL=13.4			
21 Apr	093	30 31.	6(12.5)	33	.5(12.5)	19.6(10.4)	25.7 (12.	35) 18.3 (9.7)			
26 Apr	074	15 52.8/	15.65) 5.4(3	5.8) 565 (15	-,8) 9(7.8) _[36(13.7)	46.2(15.7)4	9(3.8) 31 (13.1)			
29 Apr	Y	60	42	17.3		16.1	9.5	14.5			
•	-	46.8		15.2		4.2	3				
	K	47.6		15.35		6.85	4	6			
	G	66	44		16.5	17.8	14	16.2			
	M	69.1	50	17.4	20	24	12	19			
1 May	OTY	61.8	53.5	18.2	24.5	26.6	15.5	22			
•	K	49.9	37	16.1	12.1	13.1	6	10.7			
	M	68.4	61	18.4	25	34.7	15.5	26.1			
	-	48.8		16,25		9,1	5.4				
	6 0800	65.2	55	18.1	271	28.2	13.7	22,2			
4 May	KW	58.8	54	17.35	22.3	29	12.4	21.7=K			
,	YON	58.5	48	17.6	19.1	22.75	71	18 ::			
	Y	68.5	71			43.7	19.7	33			
	G	73.8	72	19.5	25.8	45.1	18	33			
	M	74.9	79	19.7	23.7	51.2	20	37			

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	ARSI	N							HNHR
8 May			100	21.2	24.3	72	22	50.8	1504 green
					26	42.9	15.5	30	1501 b/ne
Υ.									1502 pink
									1500 red-blue
L X	NG	73	93	21.1	23.7	66.7	16	46	1503 yellow
12 Jun	1330	At th	e mys	tery n	rdnar y	1 5ee	se ve	ral ju	vs but
	the	only b	aud5	1/90	- wer	e 0	Ko.	No	KouT
	Kid	has a	ngthi	ng sive	ilar	1 92	thin	k H	nis is
	1504	(KOM	1.	This	makes	this	an A	RSW 9	vanary.
	1 wa	tched	From	nabl	ind).	the ar	ranar	y Fro	vanary. m 1400
	-144	15 bu	t no	one	came.	J			
28 Jun	The	pond	neve	is dr	y /bye	tado	165 7	-clam	5
5 July	1400	A bi	rd a	f the	myster	y gran	avy-	-lies t	3, 7150Z
30 Sep +	5900	- 1015	Cen	sus: +	ID:	20.	128	0 150	3 71502
4 Dec	Acor	~ Cov	nt:	1145	o in	gran			
	The state of the s			1000	in	myster	y ata	.n	
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					70.0	/ J		

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	LAMB	HNHR
29 Mar	1115 Nest? Bird Plushed From new hole low	in 86
	nest tree. SE facing Low hole Im gran suag View from w To Ikhole	above -
	dran suag View from W Fill those	
31 Mar	0950 Bird in hole again. Saw at least 3 b	inds hove -
	50950 Bird in hole again. Saw at least 3 b saw & MT. This means 762 isn't the	only 3 -
	here.	1
Dec 87	Acorn Count: 4200	
) Apr	0915 Opened hole - > Fresh eggs!!	
6 Apr	0730 Fival clutch = 7 eggs. Didn't measure - beau 0745 Hatched yesterday / (rnew it. RL: 7.2 LL: 5.2 RI	coups dants.
11 Apr	0745 Hatched yesterday / Knewit. RL: 7.2 LL: 5.2 RI	1.5.8 8.8 -
12 77	0110 RL 112 21 8.5 RW 9.3 LW:12.8 8:7.	S #F = 3.13 -
13 Apr	69720 14.9 11.5 12.8 16.2 5.75 80 98 98 80 9910 $21.6(9.8) 16.7 18.75(9.8) 21.7(10.8) 5.15 1040 28(11.45) 23(11) 22.4(115) 27(12.45) 10915 33.4(13.1)/27.2(12.4)/28.9(12.75)/31.5(13.8)$	2.75
3 15 Apr	0910 21.6(9.8) 16.7 18.75(9.8) 21.7(10.8) 5.15	Barrens
17 Apr	1040 28(11.45) 22(11) 22.4(115) 27(12.45)	Z adults in
19 Apr	0915 33.4(13.1) 27.2(12.4) 28.9(12.75) 31.5 (13.8)	kole - 1 stayed in
21 Apr	0950 40.5(14.3) 33(13.6) 32.4(13.7) 38.6(14.9)	entlyer - 4 - FA procedures by the contract of the contract of the contract supervision of the contract of the
23 Apr	1000 46(15.7) 39 (14.9) 39 (14.95) 42.9 (16.1) 4.2	
·	0815 This was the worst ant situation I've ever	
	hole was a seething mass of ants - I don't kn	
	(or if) the adults were able to land to	
	The whole tree was covered. In the 50 se	
	took me to get into the tree of to the	
	I was covered. Inside the nest, the Kids	
	relatively ant-tree. I did measurements of	1 The
	ground. In opening the door and getting to out, I squashed lots of ants I hope the kids a	1e KIRS
	out, I squashed lots of ants I hope the kids a	re alright

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	LAMB	HNHR
(26 Apr)	0815 Wt Chor Bill 1°5 1° TS	; T
	BW 55 17.3 11.5 12.5 4.	8
	R 50.5 16.5	
	PB 49 16.2 6.4 2.0)
	Bo 58.5 17.1 5.8 3.3	-
29 Apr	06 R 59.6 32 17.7 9.4 7.5	
	OK 69 43 18.3 16 17.5 13.5	15.3 (2)
		16 (2)
	Pb 60 41 17.6 16.5 17.5 9.5	13.5
2 May	R 68 47 19 20.3 23 15.6	17
/	OK 78.3 62 20.1 21.6 34.3 ZZ	26
	bw 71.8 67 20.4 26.5 40.6 22 =	*
	Pb 65.5 61 18.9 23.5 34.1 13.5 2	2.5
	1488 = bw = DB VB-W = blue	
	1489 = OK = RWN 0 = pink	-
	1490 = Pb = W.LE M LB DP-LB = yellow	
	1491 = R = LP R WN = green	
6 May	MOK 81.5 84 21.9 27 56.9 13.5 39	1.3 P
	PR 76.5 71 20.8 24 44.3 14 30	
	BBW 74.9 90 21.65 26.5 63.7 15.5 39	
1	WEM 65 83 20.55 27.8 56 15.9 3	
22 May	Jane reports birds (aduts) playing in hole up hill	trom notree
1	0830 what hole?!! I climb to the "obvious" &	
to closely	a dead end. There's a nasty was old one below	it, but
	it just has acorns and leaves in it.	
27 May	1215 Hello holes - nothing - though there are some	nice
	1215 Hello holes - nothing - though there are some looking ones (esp high w facing in 88 nest tree)

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	6AMB HNHR
1 Jun	1410-1450 Hellod holes-nothing. Checked 88 hole-nothing.
	Sat in blind 1/2 hr - letsa birds ground, but none to holes -
	busy Feeding jus (1 think I saw 1488 heard others)
8 Jun	14/0 Hello holes - nothing. 1345 " However I saw/heard definitely
10 Jun	1345 " However, I saw/heard definitely
	3 and I'm pretty sure 4 of the kids. Need a juv watch. 1350 Hello holes - nothing.
11 Jun	1350 Hello holes - nothing.
12 Jun	1340 "
14 Jun	1400 "
	1550 Arrive - hear 3 kids See 00 = 1489 BPB = 1490
3 Jly	1430 Hello holes - a bird Flushes suspicionsly From
	the back side of the nest type. I check it out - a
	hole! I dimb + peep - empty, and has some chewed
	acorn shells in the bottom (ie old mouse-ness). Oh well.
5 July	So., the damn Tambos suck too Anyway 1340
	Bird flushes from back of nest tree. I peep hole.
	Are there a couple Fresh chips in there?
10 Jly	1020 Hellod holes nada. Checked new hole-nada.
	0915 Crise by . Sec 8 1489, NOBA 8 , 2 1490
	Acorn Count: 14 Downed log by pond
	560 Nest tree
	195 downed log under nest tree
	"2000" hilside tree "2000" main log 3800 = total
	Saw: 916, 1488, 1489



	EAAR	HNHR
29 Mar	1900 San 9 834 (RKW) and 2 1023 (IB) was drumming, and was doing a little chasing. Acorn Count: 4122	wilb) She
	was drumming, and was doing a little chasing.	8835 (M)
Dec 87	Acorn Count: 4122	
	Judy reports bird into 87 nest hole - only once	though,
	and for only 30 sec. The also reports birds	/
	interest in a hole in the 86 tree - in a no	
	facing hole @ 5 feet above last year's guesse	
4 Apr	1315 Bird in 87 nest hole. Where's the s	string
	1315 Bird in 87 nest hole. Where's the s 1415 2 Fresh eggs: dirty = #2, clean = #	1 (put ??)
8 Apr	0800 3 eggs, 1 knew. Um they've not espec	ially warm
	(or cold), they've not really opaque, and there w	· ·
	in the trole on arrival. (1) 25.9 × 19.55 (2) 26.7 × 19	
17 Apr	1015 RL = 4.1 LL = 4.85 egg # 1 not 1	·
18 Apr	1045 8.0 8.85	
21 Apr	1030 G:19.7 20.8(9.35) = B	+ egg
26 Apr	0700 434 (13.9) 43.2 (13.9)	1 egg
29 Apr	0830 B: 64.5(16.1)6.2(2.3) 3:65.9(16.3)4.1(2.5)	·
1 May	0915 71.9 41 17 13.7 6.7 9	7
	9 74 39 17.5 10.9 5.5 9.6	4
6 May	0900 87.4 70 19.85 27.7 41.5 17.3 28	, Z
/	9 90.1 67 20.55 25 37.5 17.3 27.5	5
9 May	G 93.4 85 21.95 30 54.9 19 37.2	
,	B 87.5 86.5 21 31 59.2 23 38.5	
12 May	0700 RWB 91.1 103 22.5 28 75.5 17 48	b/4c 1528.
	6 ³ 98.3 100 23.3 27.5 71.5 19.7 47	7,3 yel 1527
23 May	0715 Jane saw no kids yesterday + saw adults in the	hole. 1
	peeped hole - empty. Hole below empty but w Fresh	chips.

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	FAAR
(23 May)	I found some baby woodpecker teathers below the nest.
	They must have been predated.
27 May	1100 Peeped lower hole - 3 eggs. But they've deepened it
	and I rant reach.
28 May	1430 Added chips to get to eggs (4 of em)
9 Jun	1300 Only 3 eggs now, and 2 are int. The one that
	looks or isn't even pipping (and should have hatched yesterd)
10 Julie	1300 Only 3 eggs now, and 2 are int. The one that looks ok isn't even pipping (and should have hatched yesters) 1245 Still not hatched - no one in hole. Failed (?)
14 Jun	1345 New Nest (?) Bird in F Facing hole in the other
all françois de sant de la company de sant de la company de la company de la company de la company de la compa	tree. Hole is the one where the limb gets tat.
15 Jan	1340. No one in hole on arrival. Climbed + pee ped!
•	Empty, but does have Fresh chips. Did I hear a juv.
22 Jun	1315 Bird From + to hole - and I brought no saw.
25 Jun	1440 Peeped hole - empty, but Fresh chips No one in
	hole on arrival
30 Jun	1620 Hello holes - nada.
	(330
	1300 Bird in the new hole - but I have no saw.
	1315 No one in hole - climb - no eggs.
10 July	1010 Hello holes - nada
30 Sept	Jane reports & w/ incubation - like behavior in the higher
	nest hole 1 climb it - empty
	Acorn Count: 3500 E gran
	100 nest tree
	200 bat tree
	250 Snag 50 NW tree [4100] total
	[4100] total

UAZ	HNHR
Dec 87 Acorn Count: 8600	
31 Mar 1030 - 1130: watched 87 hole - nothing. Aft	er snooped
+ Found a bird in the 86 bele in the live	granary
1 Apr 0945 Checked resterdars hole - no eggs but god	od shape (?)
1 Apr 0945 Checked yesterdays hole - no eggs but god 4 Apr 1245 Checked trole - nothing, Where's B9?	
6 Apr 0800 Fresh egg - marked #1. Lites a b	,たん
7 Apr 0900 Marked today's egg # 2 Both very	cold.
7 Apr 0900 Marked today's egg # 2 Both very 8 Apr 0840 "#3"	part
11 Apr 0815: (1) 24.75 × 19.45, (2) 26.1 × 19.7, (3) 25.35 × 19.65, (4)	25.3119
(5) 25.55 × 19.8. Egg 4 was dirtier than 5	
21 Apr 0715 RL = 4.1 LL = 4.6 #5 pipping. Egg 1 ha	tched 1st then
#2, then #3. But there are only Zk	ids 1?
#2, then #3. But there are only Zk 23 Apr 0730 RL=9.2 LL=9.9 RW=8.1 r=	4.4 . Did
1 miss a kid on 21 Ap? There were no eg	95.
1 miss a kid on 21 Ap? There were no eg 26 Apr 0615 RL=17.8(9.25)=(P) LL=19 (9.8)=(G) RW=17.1(9.8)	6) · B) r · 9.8
28 Apr 0630 26.2 (11.1) 29.2 (11.9) 25.7 (11.9)	17 (9.6)
1 May 0745 33.8(13.2) 36(14.05) 36.4(14.25)	25.7(12.15)
3 May 0900 44(14.3) 47(15.15)12 42.9(15.95) 3	36.1 (14.1)
6 May 0815 51.5 (15.95) 7.7 (7.6) 57.5 (16.55) 11.1 (11.3) 3.2 (5) 53.3 (17.5) 7.45 (5) 4	
8 May 0715 b 62.8 38 18,35 13.4 14.6 8.8	
- 50.8 28 17.2 7.7 3.4	
9 61.9 43 17.4 16.2 19.7 8.3	
P 57.4 38.5 17.05 14 15.4 12.3	
10 May 0730 59.1 37 17.8 14 15.7 18.1 -	
B# 74 51 19 18 24.3 15 17	
9 70.6 56 18.25 20.5 30 13 19	3?.
P 67.2 49 17.6 19.8 26 17.5	

A SO MAN A SERVICE A STATE OF THE SERVICE AS £ 7-8

	Mary Victorian								
	MA	2 wt	chor	BH	(°5	100	75	- HNH	R
12 May	0740 b	80	63	20,3		35		4.5	
	P	72	62	18-55	22.5	37	24	26	
		66.9	51	18.9	20.5	26	14		
	3	72.6	67	19.2	25	41	17.5	25.5	
14 May	В	79.5	75	ス1. ス	25.5	46.2	18	30	bander -
a.t	P	72	74	19.35	28		25.5	32	day _
timo		69.8	62	19.9			16	20.5	23 -
	a	75.9	78	20.45	26.7	51.8	17		
16 May	0750 Mr bg	76	75	20.85	29.5	48.7	19	26.8	-
2.	MLB	_	85			57.9	19	38.5	
	MRO	79.9	88	21.6			21.5	~	
	LP	75.5	85	20. Z	30.5	60	23.6	40	
18 May	0850 MB	81.5	96	22.8	23.5	68	225	45.5	P
/	PN	74	94	21	24	69.5	31	47	Y
	MRO	78.7	98	21. >	22	72.8	21	33 45	B
y win	Group	o Upda	ite *	Jave repor	ts that	32 1026	· v 1027	Fed hove	(woff
	Jane	repor	ts no	nestine	ess duri	ug juv	watch		
g arun	130		Ho 16	holas -	+ dive		-		

* Group Update * Jave reports that 38 1026 - 1027 Fed hove (41).

Jane reports no nestiness during juv watch

9 Akay 1300 Hello holes - nothing

10 June 1330 " - juv in 89 hole.

11 Jun 1345 Juv in 88 hole (and another NOID bival too, I flushed).

12 Jun 1330 Climb 88 hole and open - empty and dirty.

18 Jun Jane reports adult in 88 hole

20 Jun 1330 5 Fresh but warm eggs in 88 hole (r lotsa mites).

30 Jun 1600 Shit RL=15.3, LL=15.3, RW=15.75, LW=12.2, 3.6 day.

30 Jn

1 July 1225 KI=18.7(8.2), LL=17.2(8.2), RW=18.8(9.1), LW=14.7, 3.39

.

1	UA2	HNHR
3 J./,	1345 RL Y= 26.7(10.25), LL= 26.9(10.3)=R, R	W=DB = 27.3(11.7)
/	LW = 23.8 (9.9).	
3 July	1320 Y = 32 (11.6), R = 33.3 (11.75), B = 35 (13.45),	-= 29.2 (11.35)
6 July	1245 38.8 (12.27), 38.8 (12.6), 39.8 (14.1),	32,9(11.9)
8 July	43(13.9), 44.9(14)-(2.8), 48.3(16) 4.1(4.1)), 38.5 (13.5)
10 July	0940 43(13.9), 44.9(14)-(2.8), 48.3(16) 4.1(4.1) 0955 48.9 15.25 6 2.5	5.2
/	03 52.8 17.7 9.75 8.6	•
	- 44 15.5 5 3.7	
	R 56 15.75 6.5 3.7	3.3
12 July	Y 53.5 35 16.15 11.5 12.1 4.3	3 9
5	- 46.9 31 17.1 9.8 10 5.2	7.4
100	B 51.8 43 19.05 16 18.9 8.8	15
	R 60 37 16.9 13 13.8 6.5	- 11
14 July	1005	12.5
	Y 53.2 43.7 17.05 14.9 20.3 9.5	
	R 64.1 47 17.8 18 23.1 11.8	
	B 53.5 51 19.45 18.5 27.6 12.6	
16 July	0006	
		25.1
	B 52.9 60.5 20.25 3 21 35.8 14.	
	- 56 49 18.37 18.5 26 12.Z	
18 July	0910 R 69.4 68 19.9 23 43 19	
(Y 64 64.8 18.25 21.5 38 15	596
B Jone:	- 58.4 60.5 19.25 22.5 36.4 17	/
205	1000 R 70.9 79 20.7 25.1 54.2 19.5	11 1 01
~~~ W(1)		31.4 MO 1657
jump?	Y 54.6 72 18.7 24.4 46.1 15.5	33 NY 1658
	7.0 /2 /0./ 21.1 /0./	

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			M.	torm	Civol	rus			
	UA2							HNI	4R
22 July	0750 WBM	61.8	88	21.3	24	62.6	17.5	44.3	
	R	49	77	21.1	22.3	52.5	18	35	C,
	Y	47	76	19.2	23	52	14.7	<b>35</b> 34.8 -	Atad
Il Dec	Acorn	Conv	t:	dead ar	ran :	2600	)		
AC-MARKET - 18 - 18 - 18 - 18 - 18 - 18 - 18 - 1		1	og un	der it		300	2		
				uphill					
			Ih	n(nest-	led	2 101	O		
				total		460			
						andikuma (Barinsa) amma di Panasida sa amma madaki milina asala sa asala di Sa			
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			tillisen et tilliste tillisen et ett kille til sepremine tillisen og skillen et et skillen et et skillen et et	uuruskuuden kirjaan milleen kilaallisen en sillee kirja hein me ^h auski en m ^a lkishtuus					
				d Phone of Phillips and Children States and American States and Am		gapungganang dan gapunggapun ang panaman ang dan manggapun dan gapun dan gapun dan gapun dan gapunggapun ang g	anni Paradon Palas - Paradon de se anno 2000 - Palas de Palas - Bara de Adelesia Anton de Palas - Palas - Bara		

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29 Mar 0810 Door to 876 nest trole had fallen out. I replaced it, but didn't have a hammer. Saw 1117 (50)! Also saw NOBA & who seemed at home here and was chasing intruders, of which there were severals 9 1117 was chasing another bird. The NOBA I has been here alys, why was he removed? 1140 8 1234 is at Big T Acorn Count: 5900 11 Apr 0900 Repaired 87 b hole 28 Apr 0700 Nest! Incest! (?)! Hatched today. 3 hatchlings and one egg - in the hole that morn was tound dead in last year. Deep hole. Will cut to morrow. Clutch 4 = incest? 29 Apr 0900 Cut hole (nice job) RL = 9.1, LL = 10.7, RW = 7.8, LW = 5.6 30 Apr 0815 RL=12.1 LL=14.4 RW=10.7 LW=7.55 1 May 0830 14.8 18 12.4 3 May 0630 23.7 (10)=0 28.1 (10.9)=K 20.5 (9.15)=G 14.4 6 May 0730 Dead Babies. They had been killed. Though the weather's been bad the didn't appear to have starved. All had peck marks I also found 2 crown Feathers in the nest. My guess is infanticide - the breeder & (assume it's the daughter died and was replaced However never heard any wierdness here. Baby weights are as Follows: 16 May 0800-0915 Census: 9 1371 (MV-LB/R) and 1117 (P/W) Also
233 (1 think). I had EBDBKBDB or something like that Birds tlew to nest area, but hello got nothing.

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<b>3</b> )	LAZ HNHR
23 May	0745 Hello nest hole - nothing. But a bird did Flush From
	the top of the tree, and I remain suspicious. Manana.
27 May	1130 hello'd holes - nothing. On a whim I climb the 88 hole-
	nothing. However, there's a nice new hole in the 87a tree
28 May	1530 Hello holes - nothing. Lotsa Mariposa lilies here
	1625 Nest! In low, cut-out, N tacing hole in dead gran
( )	LB = 13, noba = 11.1 (LB inj bill) no other eggs
	1300 Well, I remember on I Jun not being satisfied w
	the peep, and I kest pulling out acorns racoun shalls,
	so I finally decidal that there were no more eggs (esp
	since the kids there seemed to be skinny (day 3 kids?)
	Well, I guess there was another egg that hatch late (very) LB lost his band. I'll assume he's now DB = 39.5 (12.5)
	4P = 34 (12.4) and the runt = 7.6 (amazing) My
	guess is that laying got all messed up due to incest.
	I caught an adult in the hole: of BWEW = 611
	Bill = TEC = TC = 31, TN = 24.3 chor = 144 Tail 83  1345 Cought another adult in hole 9 MLB/R = 1371
9 Jun	1345 Cought another adult in hole 9 MLRIE = 1371
photo	TC = 30.8 TN = 23.4, P = 38 (12.9) PB = 42.8 (13.3) 7.7
	1315 P= 42 (13.75) TS 1.5 B= 48.4 (13.9) TS 1.5 bye runt
	1330 44.8 (14.3) + 2(3) 51 (14.4) + 2.8 (4.8)
12 Jun	1300 52 14.7 3.4 - 2.7 5
	B 57.4 14.8 3.3 - 4.5 7
- Am	1325 71.9 15.8 8.5 - 9 13.5
	P 63.8 15.85 7.8 - 7 10.7
	P 73.8 52 18.0 20 25.5 16 23

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	M. Formicivorus	
	LAZ HNHR	)
20 May		
,	He's in the granary with the other birds. No binoc	. 5
	but I sure hope he's a neighbor (UA?) coming to se	20
	what they're so upset about.	
	B 79.9 65 18.85 22.2 37 15,5 33.6 (	3)
	P 72.4 63.5 18.7 25 35.8 18 30	
22 Jun	P 76.3 73 19.4 23 45.2 22 37	
	B 80.3 74 19.5 23 46.9 18.5 39.6	ed ^P
25 Jun	1366	ear
	- 79 86 20.7 24.5 60 23 46.5 jnv	ies
11 Dec	Acorn Count: 1º gran 4200	
	in the woods 1600 total = 5900	and the second desirement of the second desire
	886 nest hole filled ~100	
		•
		Programme and the second
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BIAN	
29 Mar 0800 Bees back in base of nest tree	
Dec 87 Acorn Count: 1900	
7 Apr 0730 Now nost tree (good! its @ time). They	are in
a hole in the holey live tree beside the ha	
85 nest tree. The hole faces down the vavia	- 8-
8 Am 0900 Oround nest: 7 incorported ecos #1-7	y 03-71
15 Ans 0815 Good timing + they're hatching 15 4 25	1, = 405
8 Apr 0900 Opened nest: 7 incubated eggs, #1-7. 15 Apr 0815 Good timing - they're hatching RL: 4.25 17 Apr 0800 8.6 8.2 6.85 6.55 5.6 5.9	7 9 natch
18 A- 1000 WAR 12 100 113 92 91	2 / Map
19 Apr 0745 MARCO 125 133 116 108	8
18 Apr 1000 WMB 12 10.8 11.3 9.2 9.1 6 19 Apr 0745 MBW2 12.5 13.3 11.6 10.8 6 21 Apr 0805 (R)= 206 (10.55) (G)=18.3 (9.9) (B)=18.5 (9.25) (M)=16.5 (	(0)/17
23 A - 4030 250 (12.1) 279 (11.1) (12.5) (4.25) (4.25) (4.10.5)	1.1/12
23 Apr 0830 25.8 (12.1) 22.9 (11.6) 22.9 (10.8) 23 (11	7(17(76)
28 Apr 0745 15.7 (15.95) 43.2 (15.3) 44.25 (14.5) 42.8 (15.1)	37.1 (13.13)
The little one has a deformed beak of This is because	the skin
was grown ever the left nostril and was "pulling"	I hal side
back Mr I pushed back the strin, opened t	ne nostril
and removed some pasty yellow gunt.  30 Apr along wt Chor Bill 195 19 TS T	
30 Apr aises wt Char Bill 15 10 TS T	The state of the s
- 41 15.85	The state of the s
6 52.1 15.95 5.7 3.3	
G 48.3 16.75 6.4 2.7	(D?
M 51 16.35 46	3.
R 53 17.55 4.6 2.3	
4 May 6 60 47.5 18.8 19.5 22.9 6 11.	
M 67 45 18.5 19 20.5 9.2 12 B 64.8 46 18 17 21.1 7 12	
55 34 17.7 10.7 - 6.3 8.3	
R 67 46 19.3 20.1 21.3 8.6 13.	5

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			<b>-</b>	

	BIA	N						HN	HR
10 May	0845 0KO	76.2	78	20.35	- Z1.2	52.	2 12	.5 30	
2	RM	81.2	78	21.45	27	51.9	16	32	
& Barr	MKG	71.5	62	20	26	36.2	15	75	
**.	MEW	72	77 -	21.15	23.5	51.5	13.5	28	
	Nm	75.5	77-	20.55	2.35	508	15	28.5	
12 May	Maw	73.5	89	21.9	26	61.8	14.2	35	<i>B</i>
	NW	75.5	87	21.2	255	61	16	34.5	Y
<u> </u>		79.5	87	224	27	62	17.5	36.5	P
	MKG	74.5	74	20.95	29	47.8	14.5	30.7	G
	око	77	88	71.2	22.6	62.7	17	37	RB
	1030								
8 May	R	71.8	67	20.85	25	42.2	15	26	
/	M	67	65	20.1	22.5	40.6	13.8	22.2	Species of Street Control of S
	To the second se	595	51	19.4*	18.2	25.8	/1	18.2	•
	G	62	68	20.5	25	42.2	11.5	22.3	
	4			19.5					
9 Sept	070	5-08	45,	Census	. The	5wi-	+ 50	ope is	
				1515					
	1515	+10	, 1516	MRW,	1517	Wo	The	birds y	ever
	Wen	fto	the gr	anary. Ethe	The s	pent-	their -	time a	
	the	W	end o	f the	tield!	The.	1 all 50	visited	
	the	bee	tree	hole a	lot. I	hey sne	ent a	little ti	Me
	near	the 5	kok b	order a	t the	N ed	ge, p	icking a	corns
	1000	Masina	at N	Lorder	Saw	1518	4		•
	1045	See :	5 w c	R'M on	A. A	t first	glance	of bu	+ -
	may	be a	tiny bi	rin on	in torh	ead (but	t other	9 is a)	
	change	ged)							->

Bian 11 Dec: Acorn Count:

N side gully 300

85 nest tree! (mostly golden oak under peeling bark) 200

1° gran ~ 2000

saw 1232, 1462, 1463, 1515

1232 chased chipmunk on nearby log

Prarie Home Field

4 May 1700 1508 = 87.5 (103) | 1507: 81.6 (106) | 1506 = 92.2 (81)

1505 = 84.7 (96)

12 MM Walt Found 2nd nest - babies hatching today.

17 Jun 1645 R=12.5, LB=15, K=24.3 (11.3), M=24.3 (11.29) A runt egg still remained in the nest. I removed it

I removed K+M + added them to OKCO

5 July B 68.8 75 21.25 25 49.6 15 28.6 1646

R 71 76 21.35 23.5 47.6 13.5 31.5 1647

0915 Around the ravine E of the hotel I hear r see several birds (>2?) They karrit alot, no tew ratas heard. There are acorns on the oaks 0940 Watched a 4 thy to a tence post, then they to the ground to torage (hopping around) tou 35 sec. She Hew into a tree where she stayed a / min, then she returned to the post, then the ground (same area) and toraged in the grass for 1:40. She took small pecks in the grass - presumably after small prey items (no large prey items were observed taken) There are 400 birds in this geneval area (within heaving range) don't know hew many groups 1000 Found nest. I dub thee Ravine Group. Nest is @ 25 m high, diam nest ht 25 cm, dir 120° (no declination tigured yet) A & visited the hole (looked in) then moved up. Soon a 7 did the same. I left. Then another 7 came out of the kole, Both the 97 had light eyes and adult crowns, Cooperative breeding! Well, not breeding yet. I watched hole and saw & removing chips - but it is a deep hole - 111 watching for egg tossing. 1020 New group = Bluff. There are at least 8 Linds here. An oak is currently dropping acorns on the inside of the road curve. Many (if not most) of them are so large and round that I doubt if the woodpeckers can carry them. Many are @ linch in diameter. Monetheless, there are many empty or partially eaten ones on the

Tree B From East Bluff Linda X Vista DK 50% some here 2) Short ( Jack is Jan 2) As BAL

Volcan Irazu (16 Mar) ground. Some are split, but most seem to be opened through the side ( and some or all of the meat eaten out from this entrance. Another oak just up the road is currently Flowering. I continued past the Linda Vista (move ACWs) to a lett tunn tor the Instituto de Desarrollo Agrario. (Sign next to it is red white + blue Union Irazu (Costa Rica - Canada) 1 took this dirt road @ 700 m. I tound roost trees but saw no birds. See may for more birds seen. Next sizable (+ accessible) group seen was twother on past the sign that says V. Irazu 9 km. Group here had = 3 on the SE side of the road = 2 on the NW side: 2 groups? I worked turned around shortly after this, at km post 24. The habitat gets very good at this point - more trees than open but still both. It's now 1240. Theres a sort et roost tree quanquy? abd? just actors the road from post 24. I'll try to get a photo
1400 Back at Bluff. Lone oak (connected to curve oak acorn by wire has sapsucking holes - some look Fresh. There are 34 binds here now. I bird thew into curve oak but was displaced with a growl by another bird 1415 At Ravine a bird is throwing chips out at hole 1530 Are those sterage holes on the mid ht dead branch on the big spindley tree on the bluff? They look like it but they don't lack in great shape. No interest in them yet, the birds are in the tree. Some chasing here too.

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Volcan Irazu

(16 Mar) 1545 Ravine birds still spitting chips. Concerning the ground Foraging... I think I could catch em with peanuts > jay traps - they like to sit on tenceposts too 1800 Roost watch at Hotel group (is this Ravine?) Saw at least 6 birds here. Sow pre-roost mounting (A to B, B to A, then A to B) Roosty 1800-1810. 0520 Acw's active 0830 hotel birds are working on a hole in hotel tree live been laid up by Food poisoning (+ alt sickness?) so not much data today 1500 Watching Bluft group. No one visited my suspected granary limb. I thought saw a bird go to a hole in a big fat snag vase @ /2 way up -1330 Just saw a bird Fly trom Bluff to Hotel Birds are going to (rentering) the above hole repeatedly 1340 I'm pretty sure I just saw a bird tossing chiss trom this hole - : still under construction? 1343 Just saw a bird fly tran Bluff to ravine. There's quite a bit of karriting here. Also, I think I'm seeing more ground toraging - the birds sit low (10') on tree trunks then drop (I couldn't tell it they were landing) These sirds wake very little (most vocalizations are Karrits) Alarm call similar. 1357 Watching truiting tree at curve Lots of birds here can't say for sure whether its > 1 group (esp since there's quite a bit of chasing) I watched a bird peck at an acorn (much larger than its head they all are) for @ I min

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Volcan Irazu (17 Mar then move to quother a corn nearby. The bird pecked a hole in the acorn and looked to be eating it there, while it was still attached. This explains why I never see birds carrying acorns, why I've seen no storage holes (though I'm still looking), why all the eaten acorns are under the tree, why the eaten acours are geneally not finished (no anvils-they must just eat til it breaks), and why all the activity is in this one tree (you can't eat it at your leisure) Birds seen flying off in several directions including sw-Looking at the curve oak, I see that though most at it has ripening acorns, some branches are Howeving and putting out new leaves. 0930 while watching the curve oak I see a woodpeckoleaving with an acorn. It looked to be holding it like probably by an edge it pecked through. 0940 Saw bird leave w acorn, to same destination I get the impression that at any one time, there are many partially eaten acorns hanging on the tree Birds peck at an acorn for several minutes then move to another (or are chased from their original) They do seem to be eating, but I haven't seen a bird pull out a big chunck of acorn meat. The birds are not uspecially sky - they are willing to land and sita 0955 I break open @ 10 acorns and set them together in the grass by the fence. Will the birds come down? (none removed by 1500)



(18 Mar) I haven't noticed any tly catching (Hastings style). It's always cold, reloudy, or windy - day length is the same -I can't imagine a big pulse of insects here - what is growth rate like? Just saw a hird that looked like searlet a summer tanager striking. I similar, but body is yellow 1034 7 arrived at an already opened overn and began eating (again, little bites) She continued working on this acorn until 1043 when she flew away suddenly. No dark eyed individuals seen yet. Alarm called for passing small buteo (broad winged hawk?) There seems to be at least a couple ACWs around the curve oak at all times. I would investigate other oaks too acorns, but that would mean climbing tencer or tresspassing in this rather populated area. Higher up the volcano there are tewer people but there's no way to get there from here. Though its 50 + windy, there are cattle egret here. At 1059 a 7 landed on the same acorn as 1034 4 and began eating. Her eating rate slowed until she was just sitting on it looking around. She lett at Word. 1115 Watching ravine "nest Free. Bird sitting near trole, but did not visit. I think I see a stored acorn (!) in a semi-natural hole near the top of the in grass for 1.5 min Others ground foruging too - should do some sweep netting. 1142 rain - quit 1330 watered ravine "west" for @ 15 min no interest. There are at least 3 birds here



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Some oak comparisons. The curve oak (with the huge acorns) has thick leaves that are yellow on the underside (like a golden oak) The leaves (esp the newer ones) are rather fuzzy as well. I found another oak with smaller, shinier leaves that appears to have dropped acorns not too long ago. The caps are much smaller than those on the curve oat. The bark of this tree has a orange tint to it (probably lichen) The newst leaves seem greener than the new leaves on the other oak (with their pellphanared color) 1312 ACW landed at acorn and started pecting. I couldn't tell whether it had already been opened (1 think it had, tor the bird was quite soon eating from a rather large opening) It ate until 1515, when another bird (a d') displaced it and began eating. This bird lett at 1517. Feeding birds are torced to eat in rather precarious positions, similar to those of Hastings birds removing acorns.

Again, I can't say that all the birds at the curve tree are from I group, but there are at least 4 birds that sit peaceably together in the little snag to the Wat it between forays into the big tree. Like the Hastings birds, there is some color variation in these on its chin. In general, these birds are slightly duskier on the belly than Hastings birds, but not much. Just heard an alarm call for a low flying red-tail. (The other day I noticed about 12 RTHA flying together.) I haven't seen any solid black back white solid black back white patch between shoulders some spots on wing hat in Birts of Ranama?

Hairy WP!

also a BrW warbler

w Blk+ Yell Face.

Blk chin

yell throat

J Blackburnian

(18 Mar)	acorn carrying since those 2 events this morning.
	1600 Just saw a bird flycatching (1 sortie) At least 1
	think it was Flycatching - it could have decided to return
	to its perch after taking off. The birds are feeding
	on green acorns. Feeding bouts on an acorn are often
	disturbed by other birds (non-group members)  1615 A sird just left the curve oak with an acorn. It Flew to
	the same destination as this morning? This tree is a
	healthy green oat with no visible dead limbs turthermore,
	the bird flew into the center of the crown.
	Just saw a Nuttal's sized woodpecker (see back of p. 6) pecting
	in the dirt bank of the road cut! Primaries + 2°
	worn and very brown,
	More ACW notes - where you find one roost hole, you'll usually
	Find 4.5, on the same limb
	1750-1810 Roost watch, @ 5 birds were hanging out in
	the hotel free renvirons on arrival. They left @ 1757.
	1804 2 birds returned, sat around for I minute, then
	both roosted in the same hole (@ 30 sec apart). At
	1807 3 more birds arrived - 2 engaged in pre-voost
	mounting - the third Flew over and interrupted it 1809
	one bird entered & roost trole 1910 the 2 last birds,
	after I mount both roosted in that hole so 5 birds
	in this one roost kole.
19 Mar	0800 Ground Foraging: bird sits on a fence post and scans the
	ground - for sometimes up to a minute. Sometimes a kird flies toward
	ground - for sometimes up to a minute. Sometimes a kind flies toward the ground only to return to the post without landing, Is
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(19 Mar) this tycatching or an aborted ground toway. Once the bird does land, however, it doesn't seem to ambushing a particular prey item, at least after the initial peck. Rather, it hops around a relatively small area (3 m diam) taking occasional pecks, for up to a minute, Here near the curve oak, several birds are involved simultaneously, with perch displacement occurring regularly. How long a bird stays at a given acoun seems to depend on how good a perch it is. Birds often land at an acorn, spend several seconds getting tooting, take some preliminary pecks, lose and/or change their footing, peck some move or leave. Birds that stay for long periods at an acorn seem not to change position much or at all during this time. From where 1 sit, 1 can see \$ 5 birds ground towaging each bird no more than 20 in from its near neighbor Again, much, it not most of a birds time doing this is actually spent sitting still on a truce post. Watching these 5 birds more closely I see that 4 of them are sitting on adjacent tence posts, about 3 m apart. Individuals may sit tor 5 min without moving. Time spent on the ground is generally short. The 5 birds I'm watching have been engaged in this activity for 215 minutes. Individuals quit this activity and leave singly. Once gone, they do not return. All birds have left the foruging area. They were here 15-20 mins Acorn raps remain on the tree after the acorns have dropped. 0346 A single Karrit (not particularly alarm-like) caused

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#### M. Formicivorus

(19 Mar) 8 birds to leave the tree - quickly, en masse, and in the same general direction (downhill). After these lett, there were still at least 3 birds remaining in the tree or an adjacent one. Thus there are at least 11 birds toraging in this single tree, (I have since tound another truiting oak just up the road 100m) As I may have said yesterday, particular acorns are visited repeatedly and by different birds. Its probably my imagination, but there seem to be more 97 than 88 Flights from temposts are threatching sorties. Flying insects do seem to be predominantly low thying (ie just above grass level), perhaps due to the continual strong wind. 0900 Woodpecker activity here at the curve out has coused. 0915 The birds are back, but still not as active as before Most of the acorns on the ground (practically all the larger ones) and many of those still on the tree have split open in one two or three places. The splits are widest on the sides. The acorns are not germinating - no hypocotyl (?) is emerging from the apex. The woodpeckers use these splits as an entry point into the acorn, In some of the acorns on the ground) there was no woodpecker damage to the shell of the acorn, yet part of the acorn meat had been removed by woodpeckers through the split. (Had the acorn not fallen, the birds probably would have midened the opening to gain access to more meat. very green toucaset out of larger live ravine tree (karriting)

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## M. Formicivorus

0	1987 Babies hematocrit	HNHR
	1378 UAZ 43.5, 43.5, 43	1411 Ron 41
		1412 Ron 44
		1413 Ron + 44
	1381 KOUT 42.5	1414 Gaz 43,44,44.5,43.5
	1382 KOUT 39, 39.5	1415 Gaz 42
	1383 KOUT 38.5	1416 Gaz 42.5, 42.5
	1390 OKCO 45, 46, 45.5, 44	1417 Gaz 39,37
	1391 OKCO 43	1418 Gaz1 42.5, 44, 44
	1392 OKCO 45, 43.5, 46	1419 Park 32, 32, 32
	1393 OKCO 37	1420 Dark 27.5 sonp
<i>✓</i>	1394 OKCO 42, 42.5	1421 Dark v 43
<u>)</u>	1395 BUCK 44.5	1422 Moon 48,47
	1396 BUCK 39	1423 Moon 52
	1397 BUCK 46	1424 Moon 51,46
	1398 BUCK 46.5, 48	1425 Moon v no blood
/	1399 BUCK 42.5, 42.5	1427 LHAY 45.5, 45
under	1400 A1 47, 44, 46.5	1428 Y 50.5, 51.5
•/	1401 A) 45, 42.5, 43.6	•
»· /	1402 A1 48, 48, 46.5	1430 CVGR 36,36,37
	1403 Plge 53,53,53 51.5,52;	1431 CVGR 37,35
ν'	1404 Plge 52, 51, 52 55]	1432 CVGR 34 34.5 (32)
T	1405 SHW 37.5, 38	1433 CVGR 2005 (32.5)
	1406 SHW 37,37	$1434 \ \text{CVGR} \left(\frac{18}{47}\right)$
4 <b>44</b>	1407 SHW 47	1435 FRSR 37,37
)))	1408 BKOK 41, 40, 41	1436 FRSR 23, 23.5, 24
	1409 BKOK 45.5, 47	1437 Plge (33)
	14/0 BKOK 41.5, 42, 42.5	$\frac{1438}{1800} \frac{1800}{6.8} \left(\frac{2.4}{4.8}\right)$

1439 CV2 35.7 1440 Y 34.5 34.5 1441 Pg 45,45.5,46 42 48.5,48,50 43 39.5

*	M.	Formicivorus
		Hematocrit

HNHR 1470 34.5, 27.5 34 1524 40 1497 40,40 28 24/89 1498 44 1471 NH 1525 1472 35 35 1499 47.5 1526 36,34,34 32.57 1527 46.5,48 4725 1500 47 47 1473 1474 42, 43.5 1528 47.5, 21/47 1501 51,52 513 1529 57 wow 57 1502 46, 45, 44 45 1475 40,40 40 1530 49, 46.5, 48, 47 17.615 1503 36, 36, 36.5 36.167 47,46 46.5 1476 1504 48, 47.5, 47 47.5 43 1531 48.4,48 48.2 44,42 1477 52 36,36 36 1532 52 1478 1505 53,54 41.25 51.5 1533 49.5, 49 1479 1506 4 42.62 48.5 1480 1507 1534 48.5 44 71 1481 1508 1535 39 21 1509 53,54 53.5 1536 38 44.37 1482 1510 46,50 ? 40 1537 42, 42 42 1483 1538 48,50 37/91 23/52 16/38 1511 38/97 39.12 39 coag 312 1484 1539 47, 48, 47.5 47.5 1485 1512 1540 48,49,49 48.75 1486 1513 1541 46.5, 47.5 47 1514 1487 52.5 1515 51,54 44,43 43.5 1542 46, 46.5, 45.5 46 1488 50.5 46.5, 45.5 46 1516 49, 52 1489 1543 48 45,43 44 1517 48 1544 44,44 44 1490 1545 43.5, 43.5 43.5 45 45 1491 1518 SER CT 47.5 -34,33 33.5 1519 45,47 46 1492 47.5 1546 46 46 coag 50.75 46 50.5,51 1493 1520 1547 45.5 53,53.5,53 41 1494 4) 45,46 1548 1521 see 1495 49 1549 41,415,41 1522 40.5 44,45 445 41, 40 1550 1496 1523

20/12/00/0

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#### M. Formicivorus Hematocrit

HNHR 1612 44, 35/90 -43 40.5, 41 40.75 1583 48,46 47 1551 40,40,39.5 1584 51,50 50.5 1552 1613 37,37 1585 43.5 4172.15 7,475 51,50 50.5 1614 36.5, 37 1553 1554 46.5, 46.5 46.5 1586 50, 49 49.5 41.5 1615 42,41 1587 44.5, 4343 15 1616 36,37,37 3.75 45,44 44.5 1555 1588 54,55 545 40.5, 42 41.25 1617 32 (streak?) 26? chapo 1556 46,43 445 1589 42.5) 1618 34 1557 42,42 42 1590 40,39.5,39 1621 41,41 1558 1591 45, 45, 44 1622 46, 45 46,44 HE 45.5 1559 1592 41, 41 41 1623 42, 43 43 1593 33,33,32 1624 42 45, Mb 45 42.75 1560 45,46 45.5 42 1561 48, 47.5 47.75 1594 33, 34 33.5 1625 41, 42, 33/81 41.3 1562 46.5, 46 46.25 1595 33, 34, 34^{33,75} 1626 44, ²³/₅₉
42, 39, 42 4\ 1596 39, 39, 38^{31,75} 1627 41, 42, 42 1563 1627 41,42,42 417 1564 1597 38, 37/98371 1565 43,44.5, 44.5 1628 45, 45, 46 45.75 42,45,4142.5 1598 44, 27/63 43 1629 43 32/77 1600 44, 43.8 1631 2-42.3 1566 38, 37 37.5 1599 48.5 1567 1631 35,34,34.5 34.5 1568 41 41 1600 44, 43.8 1601 742 = 365 1632 41, 42, 40 1633 39 coag = 240? 35, 34, 35 1569 41 38, 36/92 38.4 1570 42.5, 4443.25 1603 45, 45, 44 1573 1634 42 42 42 1604 45, 28 44 1577 1635 40 43, 43.5, 44 1605 41 42 41.5 44.5 1578 1636 44 45 43.5, 44.5, 45 1579 1608 44,44 1637 40 1609 43, 42 42.5 44 1580 1638 44 1581 32, 33 32.5 47.5 1610 1639 1640 44 1611 45.5, 44.5 1582 44.5, 45 44.75 1641 39= 27/70?

are at short 7 with

### M. Formicivorus Hematocrit

HNHR

	HNHR
1642	1674:49,49,50,50,49,50,50,49,50.5
	34.5, 34.9, 35 1675: 69.5, 65, 68.5, 67.5, 66
	39.8, 40 (37.5) 1676:66.6,67,66,65,66,67,64,61,65.5,64
1645	38,40 1677: 73,66,67,66,65,69
1646	48, 44/43 1678: 66, 67, 70, 68, 66.5
	41.5, 42, 41.5 1110: 63, 63, 64, 64, 60, 33/56
1648	35.5
1649	38,38,38.7
1650	39
1651	4%3
1652	42,42
1653	42
evi 1654	44.4,4.4,8,44
cv1 1655	44
cv1 1656	50.8,50.6
u42 1657	50.5, 50.5, 50.5
was 458	47,47,47
1656 Y WAZ 1659	44.9
1660	41,43
1661	47,47
1662	48,47
1663	45
1664	42,4%7
1665	48, 35/79
1666	41, 31/78
1667	44, 45, 44
1673 16	57,59,58, 62,60,60
	56

# Species Accounts

	(begin 1 April)  HNHR
	Orioles r swallows arrived @ 21 March (1 was and)
1 Apr	Western Kingbird: cV2
	Cnemidophorus
5 Apr	Black Headed Grosbeak ?? Red House
À	Ash throated Flycatcher
18 4-	Golden Emple - Gazebo
20 Apr	W. Flycatcher FED on Red House Porch 3rd = 230-24
21 Ap-	Rattlesnake - Arnold
	0955 Mountain Lion!! Crossing lane to SHIL tween 1800 + Hors
	Baby Quail! Judy saw a Fresh Fawn!! Early, early.
30 Apr	0555 Mountain Lion. Almost same place as 27 Apr. Good view.
	0555 Mountain Lion. Almost same place as 27 Apr. Good view.  Black tip tail. Looks like a yearling. Crossed lane, then
	sat 60 feet from me for @ Z min before walking away.
2 May	1800 Heard doer scream between Pump + 1500. Doe was staring
	nervously into creek led I walked closer, I ion jumped up
	- away (towards 5416). I peeked into creek bed and saw
	a dying fawn.
5 May	chestnut-backed chickadee nest: in knot hole in Finch
/	sycamore (View From parking Its in the trunk with
	the styrotoarn granary @ 10 Feet up, W facing.
9 May	the styrotoarn granary @ 10 feet up, W facing. Golden Eagle: Y
/	Kite or Prarie Falcon! Y (Long Field)
	W Flycatchers hatched this afternoon.
19 Max	Caught Horned Lizard on path-side of Red House down.
	to Pat's parking space.
22 May	Road kill deer at Gate. Bobat had been eating and was
,	Road kill deer at Gate. Bobat had been eating and was himself hit - bad shape - was eventually shot.

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Species Accounts

species //ccounts
cv1: 2 golden eagles, 1 falcon (peregrine or prairie) HNHR
CVI: 2 golden eagles, 1 falcon (peregrine or projrie)
1400 3 golden eagles "playing" tween Haystack, SHIL, + Arnold.
One was Flying INI (== flags). Juss?
FED for 2nd flycatcher nest on Red House Porch
ZMED
Jackrabbit on way up Buckeye
0615 Great Blue Heron - Blm Pand
Golden oak at Lamb putting on a good crop of acorns!
1400 I observed what seemed to be hill-topping by suallow tails
They also engaged in spectachar Flights - when two
They also engaged in spectacher Flights - when two "wandering" inds intercepted e/o, they would shoot
straight up @ 20-30 Ft Usually one would abandon
the ascent before the other one.
Cliff Swallows - interested in Snzanne's eaves.
Red House W. Flycatchers hatching (3/4)
Golden Eagle: at PLAN, mobbed by Cooper's Hawk.
Gray Fox: lower Arnold Road
Bobcat + grown cub: Red House
Say's Phoebe: Bunk House
Bobcat : CVER
Roadrunuer: cabin
Gray fox : top of Arnold Road (near cabin)
Jackrabbit: Between Red House + Mark- Shorts (closer to me)
Swallow (VG!) at Blim fond (now dry)
Valley oak at Blim Pond has aborted it's acorns.
Jave reports Northern Shrike at Blun Pond.
Jave reports Northern Shrike at Blun Pond. 1030 Two adult RTHA go after the same gopher. One drops it, the other
gets it and eats it in a nearby tree . other hank leaves
Terek Sandpiper at Mission Beach)

is Dec (Nort) Finally get a good look at a Merlin. Landed + I had a scope. a scrpe.

1988 M. Stanback Pituophis melanoleucus 30 May 1600 Released snake (kngth 130 cm) I had fed him (?) a neonate rabbit (g) on 28 May. To a 



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